



SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS
SPLIT-TYPE, AIR CONDITIONERS

March 2009

No. OCS14

TECHNICAL DATA BOOK R410A INVERTER

<Indoor unit>

[Model names]

**PLA-A-BA
PKA-A-HA
PKA-A-HAL
PKA-A-KA
PKA-A-KAL
PCA-A-KA
PEA-A-AA**

<Outdoor unit>

[Model names]

**PUZ-A18/24/30/36/42NHA3
PUZ-A18/24/30/36/42NHA3-BS
PUY-A12/18/24/30/36/42NHA3
PUY-A12/18/24/30/36/42NHA3-BS**

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For information on service, please refer to the service manual as follows.

1-1. INDOOR UNIT

Model name	Service Ref.	Service Manual No.
PLA-A12/18/24/30/36/42BA	PLA-A12/18/24/30/36/42BA ₁	OCH420 OCB420
PKA-A12/18HA PKA-A12/18HAL	PKA-A12/18HA PKA-A12/18HAL	OCH456 OCB456
PKA-A24/30/36KA PKA-A24/30/36KAL	PKA-A24/30/36KA.TH PKA-A24/30/36KAL.TH	OCH457 OCB457
PCA-A24/30/36/42KA	PCA-A24/30/36/42KA	OCH455 OCB455
PEA-A12/18AA	PEA-A12/18AA.TH	HWE08070 BWE0811A

1-2. OUTDOOR UNIT

Model name	Service Ref.	Service Manual No.
PUZ-A18/24/30/36/42NHA3 PUZ-A18/24/30/36/42NHA3-BS PUY-A12/18/24/30/36/42NHA3 PUY-A12/18/24/30/36/42NHA3-BS	PUZ-A18/24/30/36/42NHA3 PUZ-A18/24/30/36/42NHA3-BS PUY-A12/18/24/30/36/42NHA3 PUY-A12/18/24/30/36/42NHA3-BS	OCH458 OCB458

2-1. CEILING CASSETTE TYPE

Model name	Indoor unit		PLA-A12BA	PLA-A18BA	PLA-A24BA	PLA-A30BA	PLA-A36BA	PLA-A42BA		
	Outdoor unit		PUY-A12NHA3 PUY-A12NHA3-BS	PUY-A18NHA3 PUY-A18NHA3-BS	PUY-A24NHA3 PUY-A24NHA3-BS	PUY-A30NHA3 PUY-A30NHA3-BS	PUY-A36NHA3 PUY-A36NHA3-BS	PUY-A42NHA3 PUY-A42NHA3-BS		
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000		
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	35,000	42,000		
	Min. Capacity	Btu/h	6,000	8,000	12,000	12,000	12,000	18,000		
	Total Input	W	1260	1940	2500	4100	4500	4600		
	EER	Btu/h/W	9.5	9.3	9.6	7.3	7.8	9.1		
	SEER	Btu/h/W	13.5	14.2	13.6	13.6	14.2	14.4		
	Moisture Removal	Pints/h	1.7	3.0	5.1	7.2	8.1	10.9		
*1 SHF			0.84	0.81	0.76	0.73	0.74	0.71		
Heating	Max. Capacity	Btu/h	-	-	-	-	-	-		
	Rated Capacity	Btu/h	-	-	-	-	-	-		
	Min. Capacity	Btu/h	-	-	-	-	-	-		
	Total Input	W	-	-	-	-	-	-		
	COP	W/W	-	-	-	-	-	-		
	*1 HSPF (I/V)	Btu/h/W	-	-	-	-	-	-		
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	-	-		
	Total Input	W	-	-	-	-	-	-		
*2 COP	W/W	-	-	-	-	-	-			
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V							
	Breaker size	A	15		25		30			
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V							
	Indoor - Outdoor S2-S3		DC24V							
	Indoor - Remote Controller		DC12V							
Indoor unit	MCA	A	1				2			
	MOCP	A	15							
	Fan Motor	F.L.A.	0.51			1.00				
	Fan Motor Output	W	50			120				
	Air flow DRY	CMM	11-12-13-15	12-14-16-18		14-16-18-21	20-23-26-30	22-25-28-31		
	(Lo-M2-M1-Hi) WET	CMM	10-11-12-14	11-13-15-17		13-15-17-20	19-22-25-29	21-24-27-30		
	Air flow DRY	CFM	390-420-460-530	420-490-570-640		490-570-640-740	710-810-920-1060	780-880-990-1090		
	(Lo-M2-M1-Hi) WET	CFM	350-390-420-490	390-460-530-600		460-530-600-710	670-770-880-1030	740-850-950-1060		
	External pressure	Pa	0							
	Sound level (Lo-M2-M1-Hi)	dB(A)	27-28-29-31	28-29-31-32		28-30-32-34	32-34-37-40	34-36-39-41		
	External finish (Panel)		White Munsell 6.4Y 8.9 / 0.4							
	Dimension	W : mm [inch]	840 (950) [33-1/16 (37-3/8)]							
	Unit (Panel)	D : mm [inch]	840 (950) [33-1/16 (37-3/8)]							
		H : mm [inch]	258 (35) [10-3/16 (1-3/8)]			23 (6)		298 (35) [11-3/4 (1-3/8)]		
Weight	kg	22 (6)		23 (6)		25 (6)				
	Unit (Panel)	lbs	49 (13)		51 (13)		55 (13)			
Field drain pipe size O.D.	mm [inch]	32 [1-1/4]								
Remote Controller	Attached in Grille									
Outdoor unit	MCA	A	13		18		25		26	
	MOCP	A	15		20		30		40	
	Fan Motor	F.L.A.	0.35			0.75			0.4 + 0.4	
	Fan Motor Output	W	40			75			86 + 86	
	Compressor		SNB130FPBM1			TNB220FLHM			ANV33FDPM1	
		R.L.A.	12			17.5			20	
	L.R.A.	14			17.5			27.5		
	Air flow	CMM [CFM]	34 [1,200]			55 [1,940]			100 [3,530]	
	Refrigerant Control	Linear Expansion Valve								
	Defrost Method	-								
	Sound level at cooling	dB(A)	46			48			51	
	Sound level at heating	dB(A)	-							
	External finish		Ivory Munsell 3Y 7.8/1.1							
	Dimension	W : mm [inch]	800 [31-1/2]			950 [37-3/8]				
D : mm [inch]		330+23 [13 + 7/8]			330+30 [13 + 1-3/16]					
H : mm [inch]		600 [23-5/8]			943 [37-1/8]		1350 [53-1/8]			
Weight	kg [lbs]	41 [90]		44 [97]		74 [163]		117 [258]		
Refrigerant	Type	R410A								
	Charge	kg [lbs, oz]	1.3 [2 lbs 14 oz]		1.7 [3 lbs 12 oz]		3.0 [6 lbs 10 oz]		4.5 [10 lbs]	
	Oil	L [oz]	0.65 (MEL56) [20]			0.87 (FV50S) [28]			1.4 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	12.7 [1/2]			15.88 [5/8]			-	
	Liquid side O.D.	mm [inch]	6.35 [1/4]			9.52 [3/8]			-	
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]								
	Length	Max. 30m [Max.100ft]			Max. 50 [Max.165ft]					
Refrigerant Piping	Not Supplied									
Connection Method	Flared									

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)

*2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)	
Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. -18°C (0°F)*		
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

Model name	Indoor unit Outdoor unit	PLA-A18BA PUZ-A18NHA3 PUZ-A18NHA3-BS	PLA-A24BA PUZ-A24NHA3 PUZ-A24NHA3-BS	PLA-A30BA PUZ-A30NHA3 PUZ-A30NHA3-BS	PLA-A36BA PUZ-A36NHA3 PUZ-A36NHA3-BS	PLA-A42BA PUZ-A42NHA3 PUZ-A42NHA3-BS	
Cooling	Max. Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000
	Rated Capacity	Btu/h	18,000	24,000	30,000	35,000	42,000
	Min. Capacity	Btu/h	8,000	12,000	12,000	12,000	18,000
	Total Input	W	1940	2500	4100	4500	4600
	EER	Btu/h/W	9.3	9.6	7.3	7.8	9.1
	SEER	Btu/h/W	14.2	13.6	13.6	14.2	14.4
	Moisture Removal	Pints/h	3.0	5.1	7.2	8.1	10.9
*1 SHF		0.81	0.76	0.73	0.74	0.71	
Heating	Max. Capacity	Btu/h	20,000	28,000	34,000	38,000	48,000
	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	45,000
	Min. Capacity	Btu/h	8,000	12,000	12,000	12,000	18,000
	Total Input	W	1900	2570	3370	3300	4450
	COP	W/W	2.93	2.96	2.78	3.28	2.96
	*1 HSPF (W/W)	Btu/h/W	9.8 / 7.5	8.5 / 6.8	8.7 / 6.9	9.3 / 7.3	9.3 / 7.2
	Rated Capacity	Btu/h	13,000	16,000	23,000	25,000	30,000
Heating at low ambient	Total Input	W	1590	2200	3050	3070	4300
	*2 COP	W/W	2.40	2.14	2.20	2.37	2.05
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V				
	Breaker size	A	15	25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V				
Indoor unit	MCA	A	1		2		
	MOCP	A	15				
	Fan Motor	F.L.A.	0.51		1.00		
	Fan Motor Output	W	50		120		
	Air flow DRY	CMM	12-14-16-18		14-16-18-21		
	(Lo-M2-M1-Hi) WET	CMM	11-13-15-17		13-15-17-20		
	Air flow DRY	CFM	420-490-570-640		490-570-640-740		
	(Lo-M2-M1-Hi) WET	CFM	390-460-530-600		460-530-600-710		
	External pressure	Pa	0				
	Sound level (Lo-M2-M1-Hi)	dB(A)	28-29-31-32		28-30-32-34		
	External finish (Panel)		White Munsell 6.4Y 8.9 / 0.4				
	Dimension	W : mm [inch]	840 (950) [33-1/16 (37-3/8)]				
	Unit (Panel)	D : mm [inch]	840 (950) [33-1/16 (37-3/8)]				
		H : mm [inch]	258 (35) [10-3/16 (1-3/8)]		298 (35) [11-3/4 (1-3/8)]		
	Weight	kg	22 (6)		23 (6)		
Unit (Panel)	lbs	49 (13)		51 (13)			
Field drain pipe size O.D.	mm [inch]	32 [1-1/4]					
Remote Controller	Attached in Grille						
Outdoor unit	MCA	A	13	18	25	26	
	MOCP	A	15	30	40		
	Fan Motor	F.L.A.	0.35	0.75		0.4 + 0.4	
	Fan Motor Output	W	40	75		86 + 86	
	Compressor		SNB130FPBM1	TNB220FLHM		ANV33FDPMT	
		R.L.A		12		20	
		L.R.A	14	17.5		27.5	
	Air flow	CMM [CFM]	34 [1,200]	55 [1,940]		100 [3,530]	
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound level at cooling	dB(A)	46	48		51	
	Sound level at heating	dB(A)	47	50		55	
	External finish		Ivory Munsell 3Y 7.8/1.1				
	Dimension	W : mm [inch]	800 [31-1/2]	950 [37-3/8]			
		D : mm [inch]	330+23 [13 + 7/8]	330+30 [13 + 1-3/16]			
	H : mm [inch]	600 [23-5/8]	943 [37-1/8]		1350 [53-1/8]		
Weight	kg [lbs]	45 [99]	75 [165]		118 [260]		
Refrigerant	Type		R410A				
	Charge	kg [lbs, oz]	1.7 [3 lbs 12 oz]	3.0 [6 lbs 10 oz]		4.5 [10 lbs]	
	Oil	L [oz]	0.65 [MEL56] [20]	0.87 [FV50S] [28]		1.4 [FV50S] [45]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	12.7 [1/2]	15.88 [5/8]			
	Liquid side O.D.	mm [inch]	6.35 [1/4]	9.52 [3/8]			
Refrigerant pipe length	Height difference		Max. 30m [Max.100ft]				
	Length		Max. 30m [Max.100ft]	Max. 50 [Max.165ft]			
Refrigerant Piping	Not Supplied						
Connection Method	Flared						

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)
*2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)	
Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. -18°C (0°F)*		
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

2-2. WALL-MOUNTED TYPE

Model name	Indoor unit		PKA-A12HA PKA-A12HAL	PKA-A18HA PKA-A18HAL	PKA-A24KA PKA-A24KAL	PKA-A30KA PKA-A30KAL	PKA-A36KA PKA-A36KAL	
	Outdoor unit		PUY-A12NHA3 PUY-A12NHA3-BS	PUY-A18NHA3 PUY-A18NHA3-BS	PUY-A24NHA3 PUY-A24NHA3-BS	PUY-A30NHA3 PUY-A30NHA3-BS	PUY-A36NHA3 PUY-A36NHA3-BS	
Cooling	Max. Capacity	Btu/h	12,000	18,000	24,000	30,000	34,200	
	Rated Capacity	Btu/h	12,000	18,000	24,000	30,000	34,200	
	Min. Capacity	Btu/h	6,000	8,000	12,000	12,000	12,000	
	Total Input	W	1190	2240	2270	4130	5030	
	EER	Btu/h/W	10.1	8.0	10.6	7.3	6.8	
	SEER	Btu/h/W	15.2	15.3	17.0	15.5	14.0	
	Moisture Removal	Pints/h	2.0	5.2	5.0	8.1	9.2	
*1 SHF		0.81	0.68	0.77	0.70	0.70		
Heating	Max. Capacity	Btu/h	-	-	-	-	-	
	Rated Capacity	Btu/h	-	-	-	-	-	
	Min. Capacity	Btu/h	-	-	-	-	-	
	Total Input	W	-	-	-	-	-	
	COP	W/W	-	-	-	-	-	
	*1 HSPF (I/V)	Btu/h/W	-	-	-	-	-	
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	-	
	*2 COP	W/W	-	-	-	-	-	
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V					
	Breaker size	A	15		25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V					
	Indoor - Outdoor S2-S3		DC24V					
	Indoor - Remote Controller		DC12V : Wired type					
Indoor unit	MCA	A	1					
	MOCP	A	15					
	Fan Motor	F.L.A.	0.33		0.36		0.57	
	Fan Motor Output	W	30		56			
	Air flow DRY	CMM	9-10.5-12		18-20-22		20-23-26	
	(Lo-Mid-Hi) WET	CMM	8-9.5-11		16-18-20		18-21-23	
	Air flow DRY	CFM	320-370-425		635-705-775		705-810-920	
	(Lo-Mid-Hi) WET	CFM	290-335-380		570-635-700		635-730-830	
	External pressure	Pa	0					
	Sound level (Lo-Mid-Hi)	dB(A)	36-40-43		39-42-45		43-46-49	
	External finish (Panel)		White Munsell 1.0Y 9.2/0.2					
	Dimension	W : mm [inch]	898 [35-3/8]		1170 [46-1/16]			
	Unit (Panel)	D : mm [inch]	249 [9-13/16]		295 [11-5/8]			
		H : mm [inch]	295 [11-5/8]		365 [14-3/8]			
Weight	kg	13		21				
Unit (Panel)	lbs	29		46				
Field drain pipe size I.D.	mm [inch]	16 [5/8]						
Remote Controller	Attached in Indoor Unit							
Outdoor unit	MCA	A	13		18	25		
	MOCP	A	15	20	30	40		
	Fan Motor	F.L.A.	0.35		0.75			
	Fan Motor Output	W	40		75			
	Compressor	R.L.A		SNB130FPBM1		TNB220FLHM		
		L.R.A.		14		17.5		
	Air flow	CMM [CFM]	34 [1,200]		55 [1,940]			
	Refrigerant Control		Linear Expansion Valve					
	Defrost Method		-					
	Sound level at cooling	dB(A)	46		48			
	Sound level at heating	dB(A)	-					
	External finish		Ivory Munsell 3Y 7.8/1.1					
	Dimension	W : mm [inch]	800 [31-1/2]		950 [37-3/8]			
		D : mm [inch]	330+23 [13 + 7/8]		330+30 [13 + 1-3/16]			
H : mm [inch]		600 [23-5/8]		943 [37-1/8]				
Weight	kg [lbs]	41 [90]	44 [97]	74[163]				
Refrigerant	Type	R410A						
	Charge	kg [lbs, oz]	1.3 [2 lbs 14 oz]	1.7 [3 lbs 12 oz]	3.0 [6 lbs 10 oz]			
Oil	L [oz]	0.65 (MEL56) [20]		0.87 (FV50S) [28]				
Refrigerant pipe size	Gas side O.D.	mm [inch]	12.7 [1/2]		15.88 [5/8]			
	Liquid side O.D.	mm [inch]	6.35 [1/4]		9.52 [3/8]			
Refrigerant pipe length	Height difference		Max. 30m [Max. 100ft]					
	Length		Max. 30m [Max. 100ft]		Max. 50m [Max. 165ft]			
Refrigerant Piping	Not Supplied							
Connection Method	Flared							

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
 (heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)
 *2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)	
Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. -18°C (0°F)*		
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

Model name	Indoor unit		PKA-A18HA PKA-A18HAL	PKA-A24KA PKA-A24KAL	PKA-A30KA PKA-A30KAL	PKA-A36KA PKA-A36KAL	
	Outdoor unit		PUZ-A18NHA3 PUZ-A18NHA3-BS	PUZ-A24NHA3 PUZ-A24NHA3-BS	PUZ-A30NHA3 PUZ-A30NHA3-BS	PUZ-A36NHA3 PUZ-A36NHA3-BS	
Cooling	Max. Capacity	Btu/h	18,000	24,000	30,000	34,200	
	Rated Capacity	Btu/h	18,000	24,000	30,000	34,200	
	Min. Capacity	Btu/h	8,000	12,000	12,000	12,000	
	Total Input	W	2240	2270	4130	5030	
	EER	Btu/h/W	8.0	10.6	7.3	6.8	
	SEER	Btu/h/W	15.3	17.0	15.5	14.0	
	Moisture Removal	Pints/h	5.2	5.0	8.1	9.2	
*1 SHF			0.68	0.77	0.70	0.70	
Heating	Max. Capacity	Btu/h	20,000	28,000	34,000	38,000	
	Rated Capacity	Btu/h	19,000	26,000	32,000	37,000	
	Min. Capacity	Btu/h	8,000	12,000	12,000	12,000	
	Total Input	W	1970	2330	3150	3610	
	COP	W/W	2.83	3.27	2.98	3.00	
	*1 HSPF (I/V)	Btu/h/W	9.5 / 7.6	10.8 / 8.6	8.9 / 7.1	9.3 / 7.5	
	Rated Capacity	Btu/h	13,000	18,000	23,000	25,000	
Heating at low ambient	Total Input	W	1670	2200	2850	3030	
	*2 COP	W/W	2.28	2.40	2.37	2.42	
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V				
	Breaker size	A	15	25	30		
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V : Wired type				
Indoor unit	MCA	A	1				
	MOCP	A	15				
	Fan Motor	F.L.A.	0.33	0.36		0.57	
	Fan Motor Output	W	30	56			
	Air flow DRY	CMM	9-10.5-12	18-20-22		20-23-26	
	(Lo-Mid-Hi) WET	CMM	8-9.5-11	16-18-20		18-21-23	
	Air flow DRY	CFM	320-370-425	635-705-775		705-810-920	
	(Lo-Mid-Hi) WET	CFM	290-335-380	570-635-700		635-730-830	
	External pressure	Pa	0				
	Sound level (Lo-Mid-Hi)	dB(A)	36-40-43	39-42-45		43-46-49	
	External finish (Panel)		White Munsell 1.0Y 9.2/0.2				
	Dimension	W : mm [inch]	898 [35-3/8]	1170 [46-1/16]			
	Unit (Panel)	D : mm [inch]	249 [9-13/16]	295 [11-5/8]			
		H : mm [inch]	295 [11-5/8]	365 [14-3/8]			
	Weight	kg	13	21			
Unit (Panel)	lbs	29	46				
Field drain pipe size I.D.	mm [inch]	16 [5/8]					
Remote Controller	Attached in Indoor Unit						
Outdoor unit	MCA	A	13	18	25		
	MOCP	A	20	30	40		
	Fan Motor	F.L.A.	0.35	0.75			
	Fan Motor Output	W	40	75			
	Compressor			SNB130FPBM1	TNB220FLHM		
			R.L.A.	12			
			L.R.A.	14	17.5		
	Air flow	CMM [CFM]	34 [1,200]	55 [1,940]			
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound level at cooling	dB(A)	46	48			
	Sound level at heating	dB(A)	47	50			
	External finish		Ivory Munsell 3Y 7.8/1.1				
	Dimension	W : mm [inch]	800 [31-1/2]	950 [37-3/8]			
		D : mm [inch]	330+23 [13 + 7/8]	330+30 [13 + 1-3/16]			
H : mm [inch]		600 [23-5/8]	943 [37-1/8]				
Weight	kg [lbs]	45 [99]	75 [165]				
Refrigerant	Type	R410A					
	Charge	kg [lbs, oz]	1.7 [3 lbs 12 oz]	3.0 [6 lbs 10 oz]			
	Oil	L [oz]	0.65 (MEL56) [20]	0.87 (FV50S) [28]			
Refrigerant pipe size	Gas side O.D.	mm [inch]	12.7 [1/2]	15.88 [5/8]			
	Liquid side O.D.	mm [inch]	6.35 [1/4]	9.52 [3/8]			
Refrigerant pipe length	Height difference	Max. 30m [Max. 100ft]					
	Length	Max. 30m [Max. 100ft]	Max. 50m [Max. 165ft]				
Refrigerant Piping Connection Method	Not Supplied Flared						

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)
*2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

Cooling	Indoor intake air temperature		Outdoor intake air temperature	
	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)	
Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. -18°C (0°F)*		
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

2-3. CEILING-SUSPENDED TYPE

Model name	Indoor unit		PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA	
	Outdoor unit		PUY-A24NHA3 PUY-A24NHA3-BS	PUY-A30NHA3 PUY-A30NHA3-BS	PUY-A36NHA3 PUY-A36NHA3-BS	PUY-A42NHA3 PUY-A42NHA3-BS	
Cooling	Max. Capacity	Btu/h	24,000	30,000	35,000	42,000	
	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000	
	Min. Capacity	Btu/h	12,000	12,000	12,000	18,000	
	Total Input	W	2340	3760	4630	4110	
	EER	Btu/h/W	10.3	8.0	7.6	10.2	
	SEER	Btu/h/W	16.8	14.5	14.4	15.8	
	Moisture Removal	Pints/h	5.8	8.3	8.5	11.7	
	*1 SHF		0.73	0.69	0.73	0.69	
Heating	Max. Capacity	Btu/h	-	-	-	-	
	Rated Capacity	Btu/h	-	-	-	-	
	Min. Capacity	Btu/h	-	-	-	-	
	Total Input	W	-	-	-	-	
	COP	W/W	-	-	-	-	
	*1 HSPF (I/V)	Btu/h/W	-	-	-	-	
Heating at low ambient	Rated Capacity	Btu/h	-	-	-	-	
	*2 COP	W/W	-	-	-	-	
Power supply	Phase, Cycle, Voltage		1phase, 60Hz, 208/230V				
	Breaker size	A	25		30		
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V				
Indoor unit	MCA	A	1		2		
	MOCP	A	15				
	Fan Motor	F.L.A.	0.54		0.97		
	Fan Motor Output	W	95		160		
	Air flow	DRY	CMM	15-16-17-19	16-17-18-20	22-24-26-28	23-25-27-29
		(Lo-M2-M1-Hi) WET	CMM	14-15-16-18	15-16-17-19	20-22-24-26	21-23-25-27
	Air flow	DRY	CFM	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1025
		(Lo-M2-M1-Hi) WET	CFM	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
	External pressure	Pa	0				
	Sound level (Lo-M2-M1-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4				
	Dimension Unit (Panel)	W : mm [inch]	1280 [50-3/8]		1600 [63]		
		D : mm [inch]	680 [26-3/4]				
		H : mm [inch]	230 [9-1/16]				
Weight Unit (Panel)	kg	32		36	38		
	lbs	71		79	84		
Field drain pipe size O.D.	mm [inch]	26 [1-1/32]					
Remote Controller	Attached in Indoor Unit						
Outdoor unit	MCA	A	18	25	26		
	MOCP	A	30	40			
	Fan Motor	F.L.A.	0.75		0.4 + 0.4		
	Fan Motor Output	W	75		86 + 86		
	Compressor		TNB220FLHM			ANV33FDPMT	
		R.L.A.	14		12	20	
		L.R.A.	17.5			27.5	
	Air flow	CMM [CFM]	55 [1,940]			100 [3,530]	
	Refrigerant Control	Linear Expansion Valve					
	Defrost Method	-					
	Sound level at cooling	dB(A)	48			51	
	Sound level at heating	dB(A)	-				
	External finish		Ivory Munsell 3Y 7.8/1.1				
	Dimension	W : mm [inch]	950 [37-3/8]				
D : mm [inch]		330+30 [13 + 1-3/16]					
H : mm [inch]		943 [37-1/8]		1350 [53-1/8]			
Weight	kg [lbs]	74[163]		117 [258]			
Refrigerant	Type	R410A					
	Charge	kg [lbs]	3.0 [6 lbs 10 oz]		4.5 [10 lbs]		
	Oil	L [oz]	0.87 (FV50S) [28]			1.4 (FV50S) [45]	
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]				
	Liquid side O.D.	mm [inch]	9.52 [3/8]				
Refrigerant pipe length	Height difference	Max. 30m [Max. 100ft]					
	Length	Max. 50m [Max. 165ft]					
Refrigerant Piping	Not Supplied						
Connection Method	Flared						

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)

*2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

		Indoor intake air temperature		Outdoor intake air temperature	
Cooling	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)		D.B. 46°C (115°F)	
	Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)		D.B. -18°C (0°F)*	
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)		D.B. 21.1°C (70°F), W.B. 15°C (59°F)	
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)		D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)	

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

Model name	Indoor unit		PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA	
	Outdoor unit		PUZ-A24NHA3 PUZ-A24NHA3-BS	PUZ-A30NHA3 PUZ-A30NHA3-BS	PUZ-A36NHA3 PUZ-A36NHA3-BS	PUZ-A42NHA3 PUZ-A42NHA3-BS	
Cooling	Max. Capacity	Btu/h	24,000	30,000	35,000	42,000	
	Rated Capacity	Btu/h	24,000	30,000	35,000	42,000	
	Min. Capacity	Btu/h	12,000	12,000	12,000	18,000	
	Total Input	W	2340	3760	4630	4110	
	EER	Btu/h/W	10.3	8.0	7.6	10.2	
	SEER	Btu/h/W	16.8	14.5	14.4	15.8	
	Moisture Removal	Pints/h	5.8	8.3	8.5	11.7	
	*1 SHF		0.73	0.69	0.73	0.69	
Heating	Max. Capacity	Btu/h	28,000	34,000	38,000	48,000	
	Rated Capacity	Btu/h	26,000	32,000	37,000	45,000	
	Min. Capacity	Btu/h	12,000	12,000	12,000	18,000	
	Total Input	W	2310	3210	3190	3830	
	COP	W/W	3.30	2.92	3.40	3.44	
		*1 HSPF (I/V)	Btu/h/W	10.9 / 8.9	9.2 / 7.1	10.2 / 8.1	10.2 / 8.3
	Heating at low ambient	Rated Capacity	Btu/h	18,000	23,000	25,000	30,000
	Total Input	W	2220	2940	2800	3820	
	*2 COP	W/W	2.38	2.29	2.62	2.30	
Power supply	Phase, Cycle, Voltage		1phase , 60Hz , 208/230V				
	Breaker size	A	25		30		
Voltage	Indoor - Outdoor S1-S2		AC 208 / 230V				
	Indoor - Outdoor S2-S3		DC24V				
	Indoor - Remote Controller		DC12V				
Indoor unit	MCA	A	1		2		
	MOCP	A	15				
	Fan Motor	F.L.A.	0.54		0.97		
	Fan Motor Output	W	95		160		
	Air flow DRY	CMM	15-16-17-19	16-17-18-20	22-24-26-28	23-25-27-29	
	(Lo-M2-M1-Hi) WET	CMM	14-15-16-18	15-16-17-19	20-22-24-26	21-23-25-27	
	Air flow DRY	CFM	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1025	
	(Lo-M2-M1-Hi) WET	CFM	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955	
	External pressure	Pa	0				
	Sound level (Lo-M2-M1-Hi)	dB(A)	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4				
	Dimension	W : mm [inch]	1280 [50-3/8]		1600 [63]		
	Unit (Panel)	D : mm [inch]	680 [26-3/4]				
		H : mm [inch]	230 [9-1/16]				
	Weight	kg	32		36	38	
Unit (Panel)	lbs	71		79	84		
	Field drain pipe size O.D.	mm [inch]					
Remote Controller		Attached in Indoor Unit					
Outdoor unit	MCA	A	18	25	26		
	MOCP	A	30	40			
	Fan Motor	F.L.A.	0.75		0.4 + 0.4		
	Fan Motor Output	W	75		86 + 86		
	Compressor		TNB220FLHM			ANV33FDPMT	
		R.L.A.	12		20		
		L.R.A.	14	17.5		27.5	
	Air flow	CMM [CFM]	55 [1,940]			100 [3,530]	
	Refrigerant Control		Linear Expansion Valve				
	Defrost Method		Reverse Cycle				
	Sound level at cooling	dB(A)	48		51		
	Sound level at heating	dB(A)	50		55		
	External finish		Ivory Munsell 3Y 7.8/1.1				
	Dimension	W : mm [inch]	950 [37-3/8]				
		D : mm [inch]	330+30 [13 + 1-3/16]				
	H : mm [inch]	943 [37-1/8]		1350 [53-1/8]			
Weight	kg [lbs]	75 [165]		118 [260]			
Refrigerant	Type	R410A					
	Charge	kg [lbs]	3.0 [6 lbs 10 oz]		4.5 [10 lbs]		
	Oil	L [oz]	0.87 (FV50S) [28]		1.4 (FV50S) [45]		
Refrigerant pipe size	Gas side O.D.	mm [inch]	15.88 [5/8]				
	Liquid side O.D.	mm [inch]	9.52 [3/8]				
Refrigerant pipe length	Height difference		Max. 30m [Max. 100ft]				
	Length		Max. 50m [Max. 165ft]				
Refrigerant Piping		Not Supplied					
Connection Method		Flared					

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)
*2.Rating conditions (heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

		Indoor intake air temperature		Outdoor intake air temperature	
Cooling	Maximum	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)		
	Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. -18°C (0°F)*		
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)		
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)		

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

2-4. CEILING CONCEALED TYPE

Model name	indoor unit		PEA-A12AA	PEA-A18AA	PEA-A18AA
	outdoor unit		PUY-A12NHA3	PUY-A18NHA3	PUZ-A18NHA3
Cooling			PUY-A12NHA3-BS	PUY-A18NHA3-BS	PUZ-A18NHA3-BS
	Max. Capacity	Btu/h	12,000	18,000	18,000
	Rated Capacity	Btu/h	12,000	18,000	18,000
	Min. Capacity	Btu/h	6,000	8,000	8,000
	Total input	W	1240	2150	2150
	EER	Btu/h	9.7	8.4	8.4
	SEER	Btu/h	13.8	14.3	14.3
Moisture Removal	Pints/h	2.47	3.26	3.26	
*1 SHF			0.77	0.80	0.80
Heating	Max. Capacity	Btu/h	-	-	20,000
	Rated Capacity	Btu/h	-	-	19,000
	Min. Capacity	Btu/h	-	-	8,000
	Total input	W	-	-	1540
	COP	W/W	-	-	3.61
	*1 HSPF(IV/V)	Btu/h/W	-	-	10.0 / 8.0
	Heating at low ambient	Rated Capacity	Btu/h	-	-
	Total input	W	-	-	1520
	*2 COP	W/W	-	-	2.51
Power supply	Phase,Cycle,Voltage		1phase, 60Hz, 208/230V		
	Breaker size	A	15		
Voltage	indoor - outdoor S1-S2		AC208 / 230V		
	indoor - outdoor S2-S3		DC24V		
	indoor - Remote controller		DC12V		
Indoor unit	MCA	A	1	2	
	MOCP	A	15	15	
	Fan Motor	F.L.A	0.57	0.74	
	Fan Motor Output	W	96		
	Air flow DRY	CMM	7-9-11	12-15-18	
	(Lo-Mid-Hi) WET	CMM	6-8-10	11-14-17	
	Air flow DRY	CFM	247-317-388	423-529-635	
	(Lo-Mid-Hi) WET	CFM	222-285-349	381-476-572	
	External pressure	in.WG [Pa]	0.02/0.06/0.14/0.20 [5/15/35/50]		
	Sound level (Lo-Mid-Hi)	dB(A)	23-28-33	30-34-38	
	External finish	Galvanized			
	Dimension	W:mm[inch]	990[39]	1190[46-7/8]	
	Unit (Panel)	D:mm[inch]	700[27-9/16]	700[27-9/16]	
		H:mm[inch]	200[7-7/8]	200[7-7/8]	
Weight	kg	21	27		
Unit	lbs	48	60		
Field Drain pipe seize O.D.	mm[inch]	32 [1-9/32]			
Remote Controller			Attached in indoor Unit		
Outdoor unit	MCA	A	13		
	MOCP	A	15	20	
	Fan Motor	F.L.A.	0.35		
	Fan Motor Output	W	40		
	Compressor	SNB130FPBM1			
		R.L.A.	12		
	L.R.A.	14			
	Air flow	CMM[CFM]	34 [1,200]		
	Refrigerant Control	Linear Expansion Valve			
	Defrost Method	-		-	Reverse Cycle
	Sound level at cooling	dB(A)	46		
	Sound level at heating	dB(A)	-		47
	External finish	Ivory Munsell 3Y 7.8/1.1			
	Dimension	W:mm[inch]	800 [31-1/2]		
D:mm[inch]		330+23 [13+7/8]			
H:mm[inch]		600 [23-5/8]			
Weight	kg[lbs]	41[90]	44[97]	45[99]	
Refrigerant	Type	R410A			
	Charge	kg[lbs,oz]	1.3 [2lbs 14oz]	1.7 [3lbs 12oz]	
	Oil	L[oz]	0.65 (MEL 56) [20]		
Refrigerant pipe size	Gas side O.D.	mm[inch]	12.7 [1/2]		
	Liquid side O.D.	mm[inch]	6.35 [1/4]		
Refrigerant pipe length	Height difference	Max. 30m [Max.100ft]			
	Length	Max. 30m [Max.100ft]			
Refrigerant Piping	Not Supplied				
Connection Method	Flared				

NOTES : *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C (80°F), W.B. 19.4°C (67°F) Outdoor : D.B. 35°C (95°F), W.B. 23.9°C (75°F)
 (heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. 8.3°C (47°F), W.B. 6.1°C (43°F)

*2.Rating conditions(heating)-Indoor : D.B. 21.1°C (70°F), W.B. 15.6°C (60°F) Outdoor : D.B. -8.3°C (17°F), W.B. -9.4°C (15°F)

Operating range

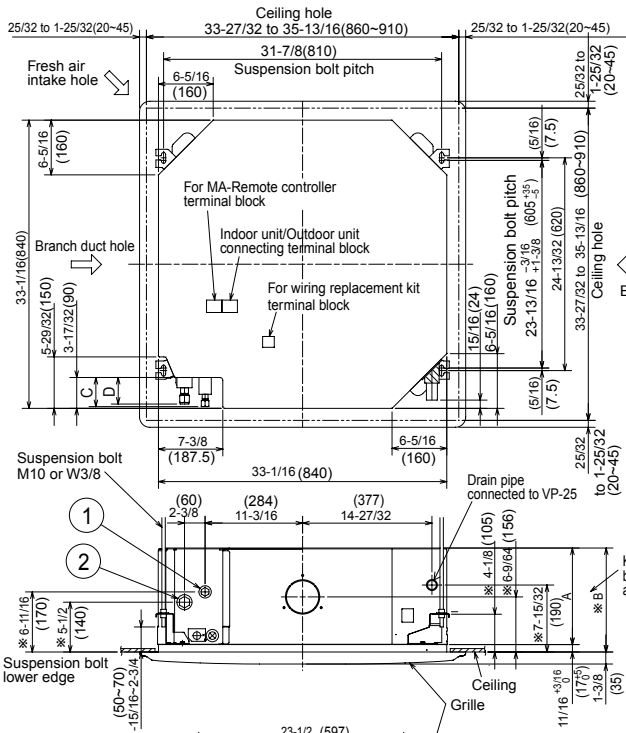
Cooling	Maximum	Indoor intake air temperature		Outdoor intake air temperature	
		Minimum	D.B. 19.4°C (67°F), W.B. 13.9°C (57°F)	D.B. 35°C (95°F), W.B. 21.7°C (71°F)	D.B. 46°C (115°F)
Heating	Maximum	D.B. 26.7°C (80°F), W.B. 19.4°C (67°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)
	Minimum	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. 21.1°C (70°F), W.B. 15.6°C (60°F)	D.B. 21.1°C (70°F), W.B. 15°C (59°F)	D.B. -11.1°C (12°F), W.B. -12.2°C (10°F)

* In case that the wind baffle is installed. (In case that the wind baffle is not installed, the minimum temperature will be -5°C (23°F)DB.)

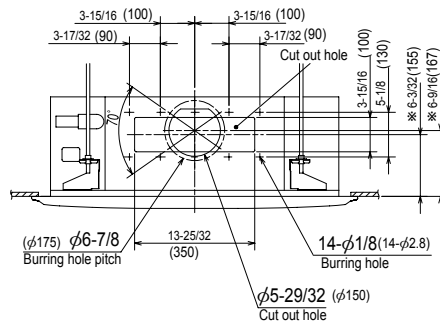
INDOOR UNIT

Unit: inch (mm)

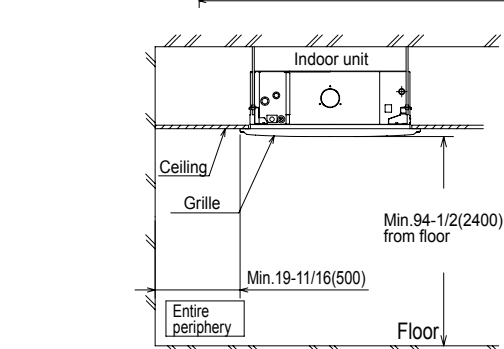
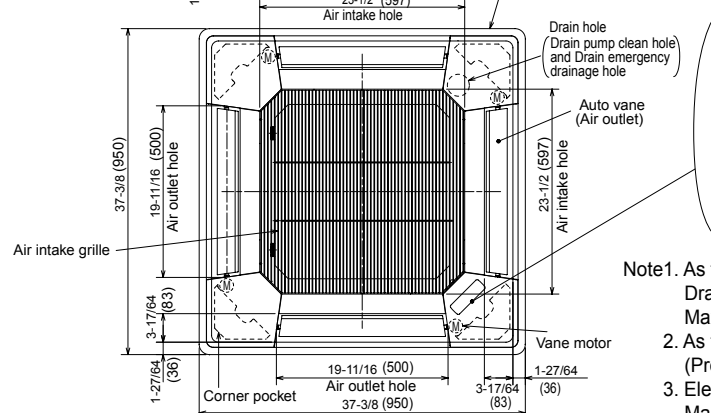
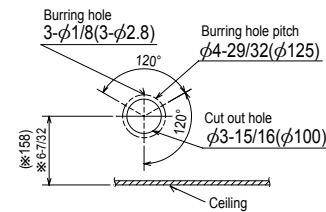
PLA-A12BA PLA-A18BA PLA-A24BA PLA-A30BA PLA-A36BA PLA-A42BA



Detail connecting of branch duct(Both aspects)



Detail drawing of fresh air intake hole



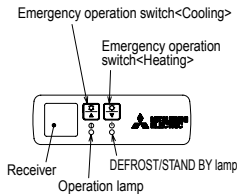
(Connected the attached flexible pipe or socket.)

Keep 25/64(10)to 19/32(15) between unit ceiling and ceiling slab.

In case of standard grille



In case of wireless remote controller

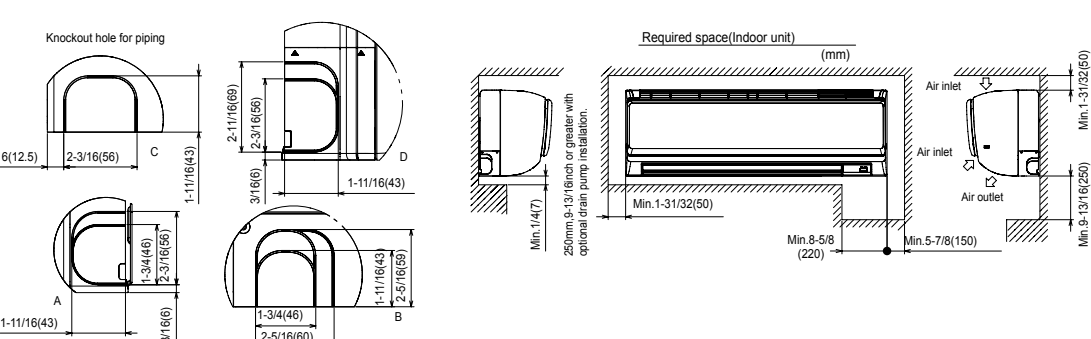
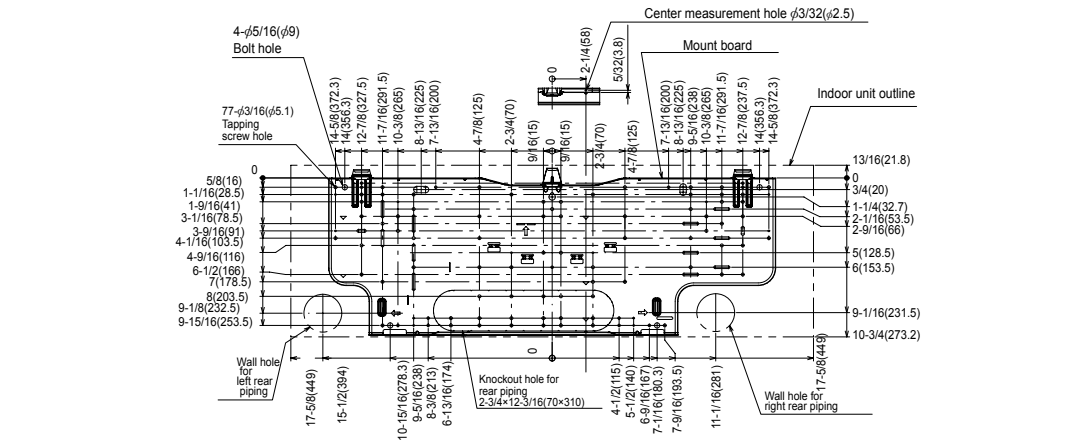
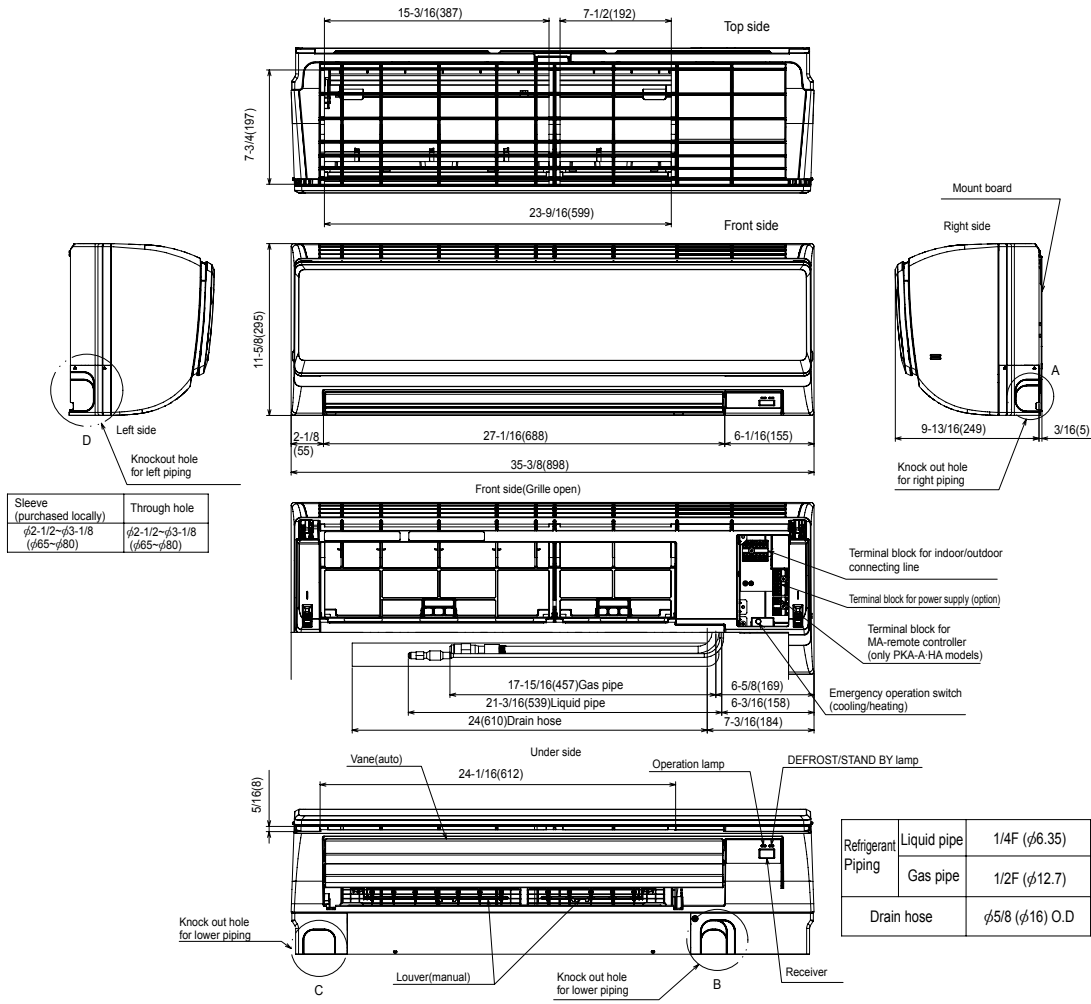


- Note1. As for drain pipe, please use VP-25(O.D.1-1/4(32mm) PVC TUBE). Drain pump is included. Max. lifting height is 70-7/18(850mm) from the ceiling.
- As for suspension bolt, please use M10 or W3/8. (Procured at local site)
 - Electrical box may be removed for the service purpose. Make sure to slack the electrical wire little bit for control/power wires connection.
 - The height of the indoor unit can be adjusted with the grille attached.
 - For the installation of the optional high efficiency filter or optional multi-functional casement.
 - Add 5-5/16(135mm) to the dimensions * marked on the figure.
 - Optional high efficiency filter must be used jointly with optional multi-functional casement.
 - When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur. (It becomes the cause of dew drops/water dew.)
 - As for necessary installation/service space, please refer to the left figure.

Models	①	②	A	B	C	D
PLA-A12BA PLA-A18BA	Refrigerant pipe ...φ6.35mm Flared connection ...1/4	Refrigerant pipe ...φ12.7mm Flared connection ...1/2	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLA-A24BA PLA-A30BA	Refrigerant pipe ...φ9.52mm Flared connection ...3/8	Refrigerant pipe ...φ15.88mm Flared connection ...5/8	11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/32 (77)

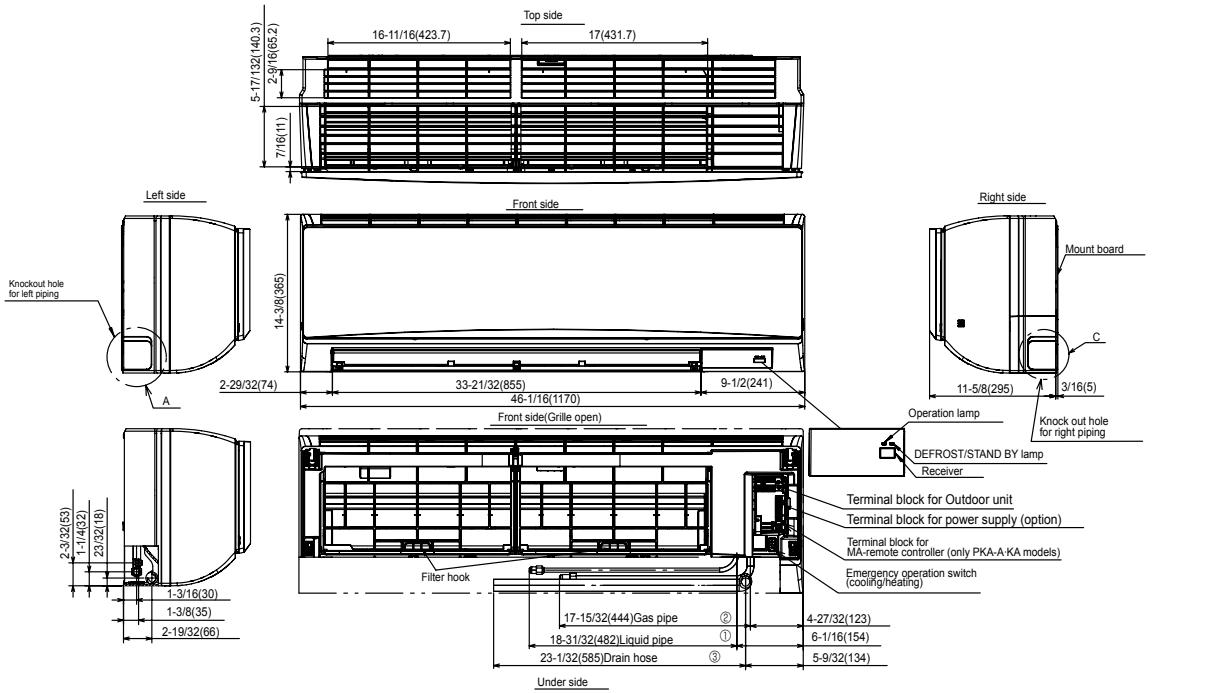
PKA-A12HA PKA-A12HAL PKA-A18HA PKA-A18HAL

Unit: inch (mm)



PKA-A24KA PKA-A24KAL PKA-A30KA PKA-A30KAL
 PKA-A36KA PKA-A36KAL

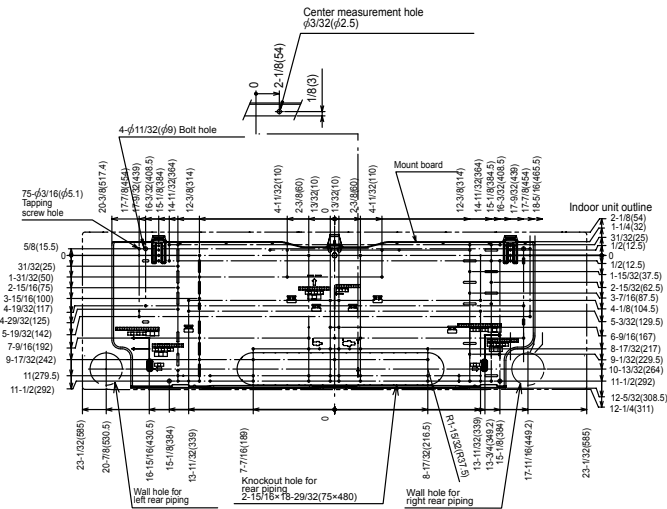
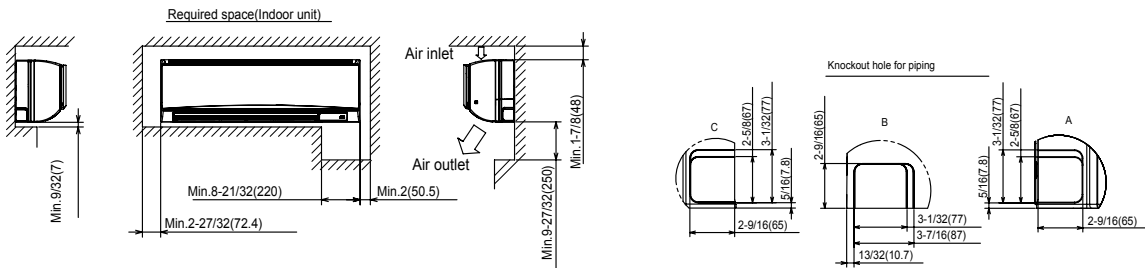
Unit: inch (mm)



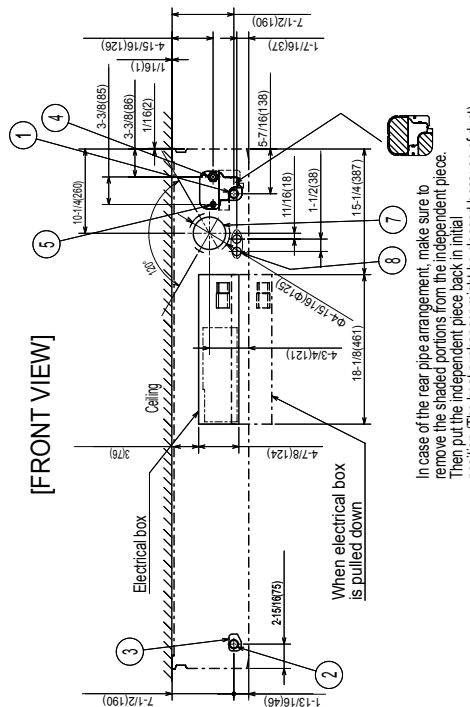
Sleeve (purchased locally)	Through hole
$\phi 2-15/16$ ($\phi 75$)	$\phi 2-15/16-\phi 3-5/32$ ($\phi 75-\phi 80$)

Piping connection department

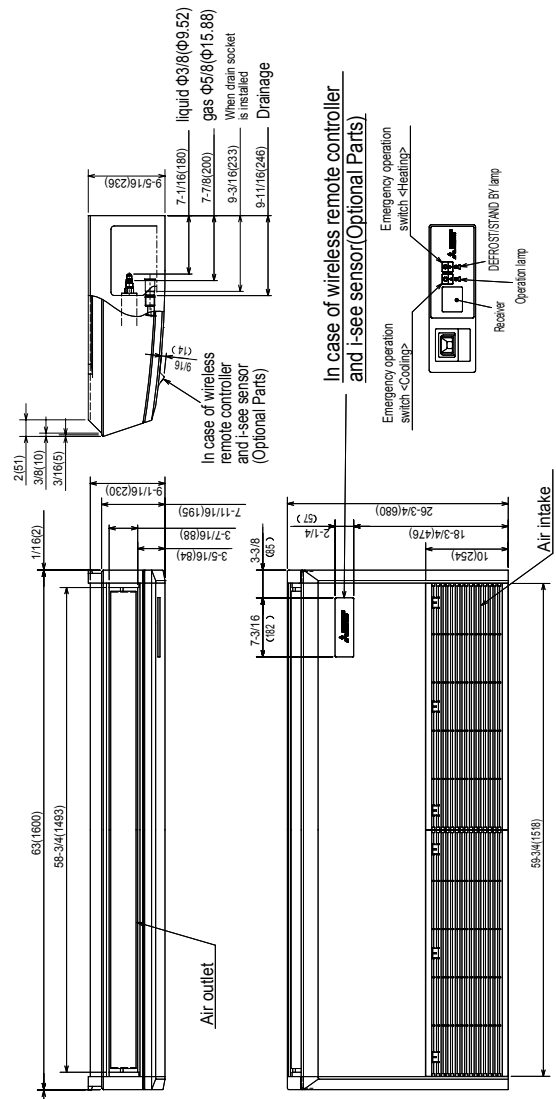
① Liquid pipe	Refrigerant pipe: 3/8 O.D($\phi 9.52$) Flared connection: 3/8F
② Gas pipe	Refrigerant pipe: 5/8 O.D($\phi 15.88$) Flared connection: 5/8F
③ Drain hose	5/8($\phi 16$) O.D



NOTES.
 1. Use M10 or W3/8 screw for anchor bolt.
 2. Please be sure when installing the drain lift up mechanism (option parts), refrigerant pipe will be only upward.



In case of the rear pipe arrangement, make sure to remove the shaded portions from the independent piece. Then put the independent piece back in initial position. (The heat exchanger might be clogged because of dust)

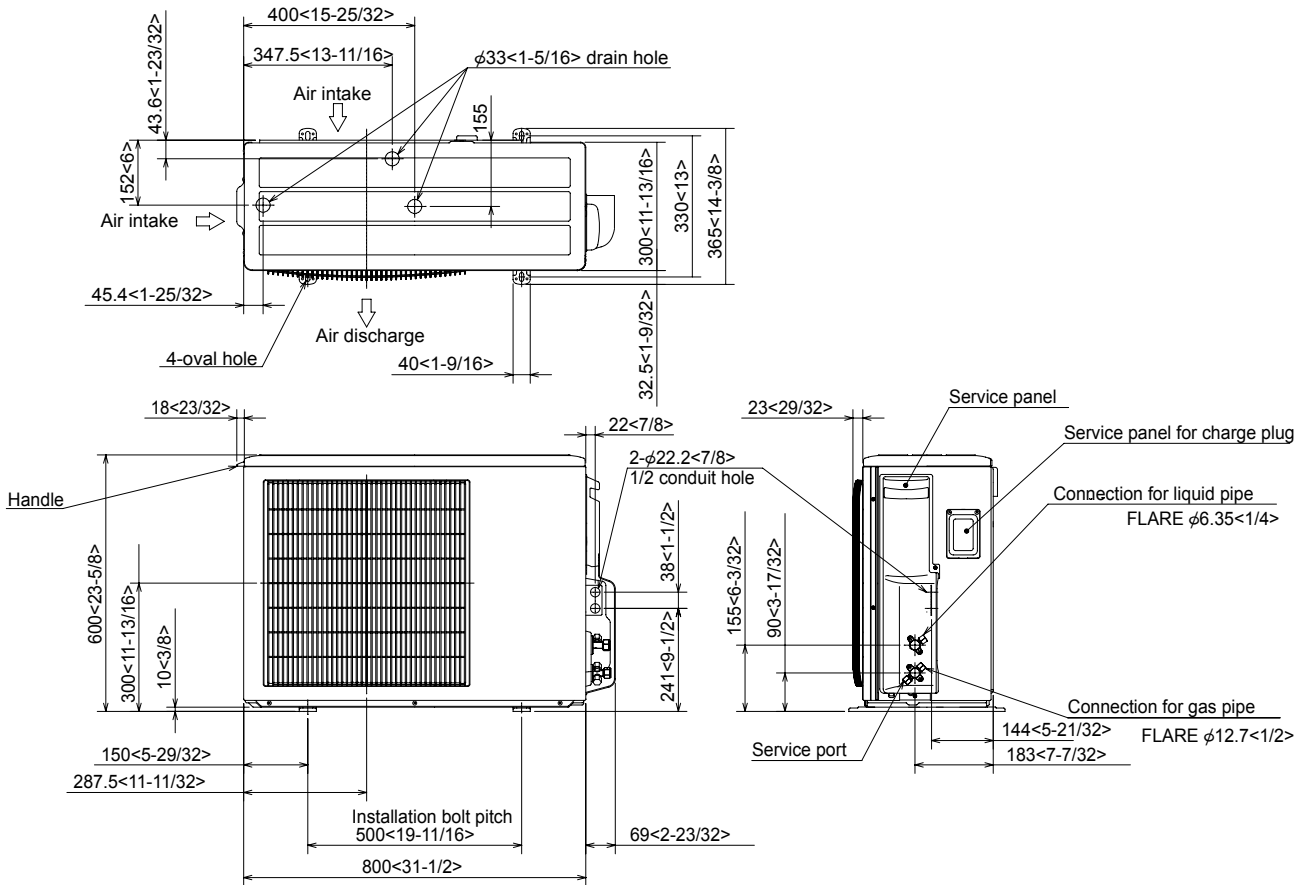


- ① Drainage pipe connection (1(26mm) I.D.)
- ② Drainage pipe connection (for the left arrangement)
- ③ Knockout hole for left drain-piping arrangement
- ④ Refrigerant-pipe connection (gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
- ⑥ Knockout hole for upper drain pipe arrangement
- ⑦ Knockout hole for fresh air intake $\phi 3-15/16(\phi 100)$
- ⑧ Knockout hole for wiring arrangement $\phi 7/8(\phi 22)$ Accessory...Drain socket (1(26mm) I.D.)

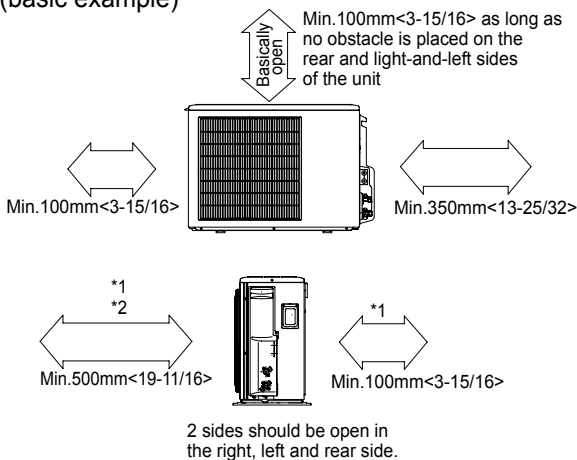
OUTDOOR UNIT

PUY-A12NHA3(-BS) PUY-A18NHA3(-BS) PUZ-A18NHA3(-BS)

Unit: mm (inch)

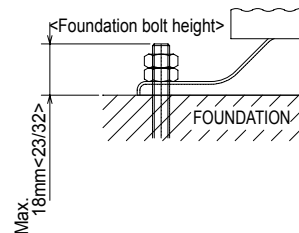


Free space around the outdoor unit (basic example)



FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation M10<W3/8> bolts. (Bolts, washers and nut must be purchased locally.)



PIPING-WIRING DIRECTION

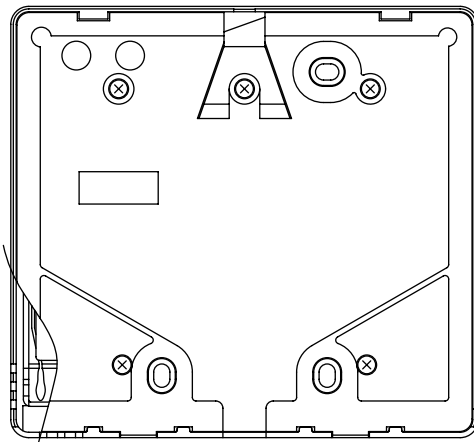
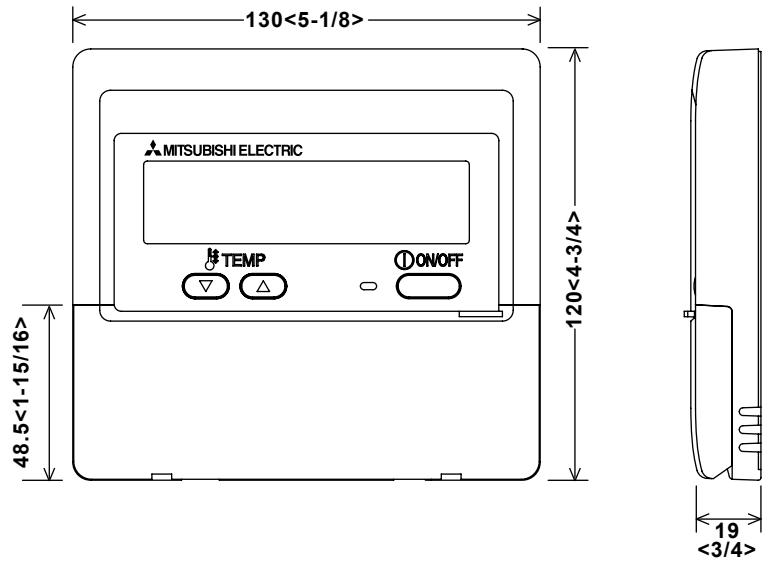
Piping and wiring connection can be made from the rear direction only.

Minimum installation space for outdoor unit

- *1 In the place where short cycle tends to occur, cooling and heating capacity and power consumption might get lowered 10%. Air outlet guide (optional PAC-SG58SG-E) will help them improve.
- *2 If air discharges to the wall, the surface might get stained.

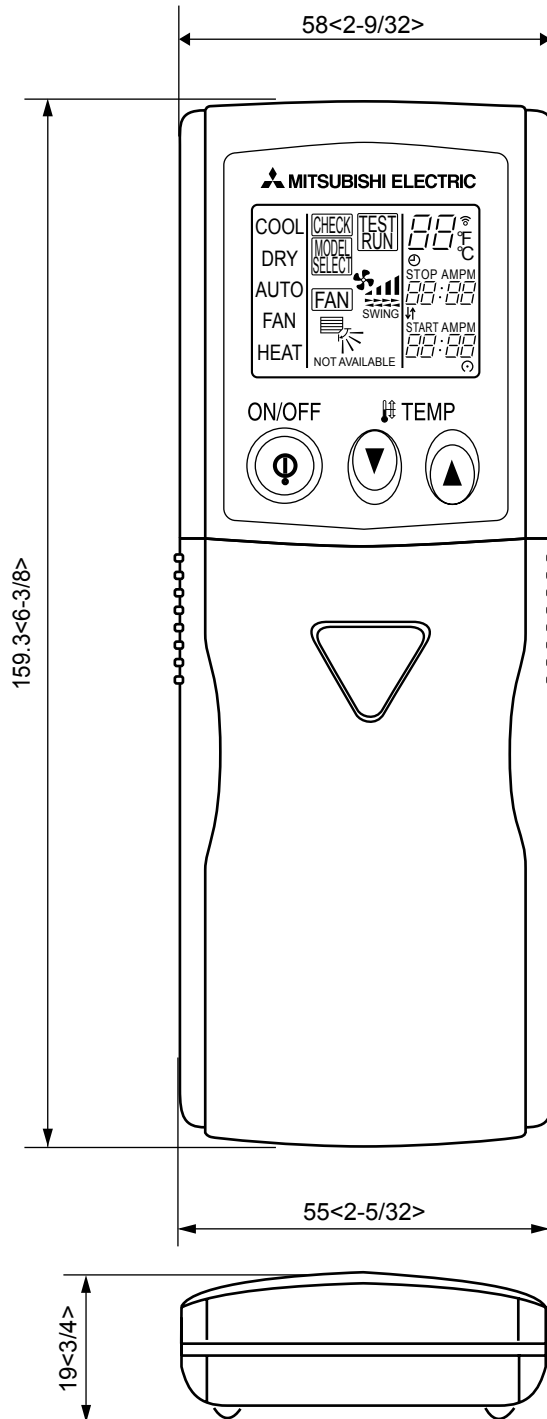
WIRED REMOTE CONTROLLER

Unit: mm (inch)



WIRELESS REMOTE CONTROLLER

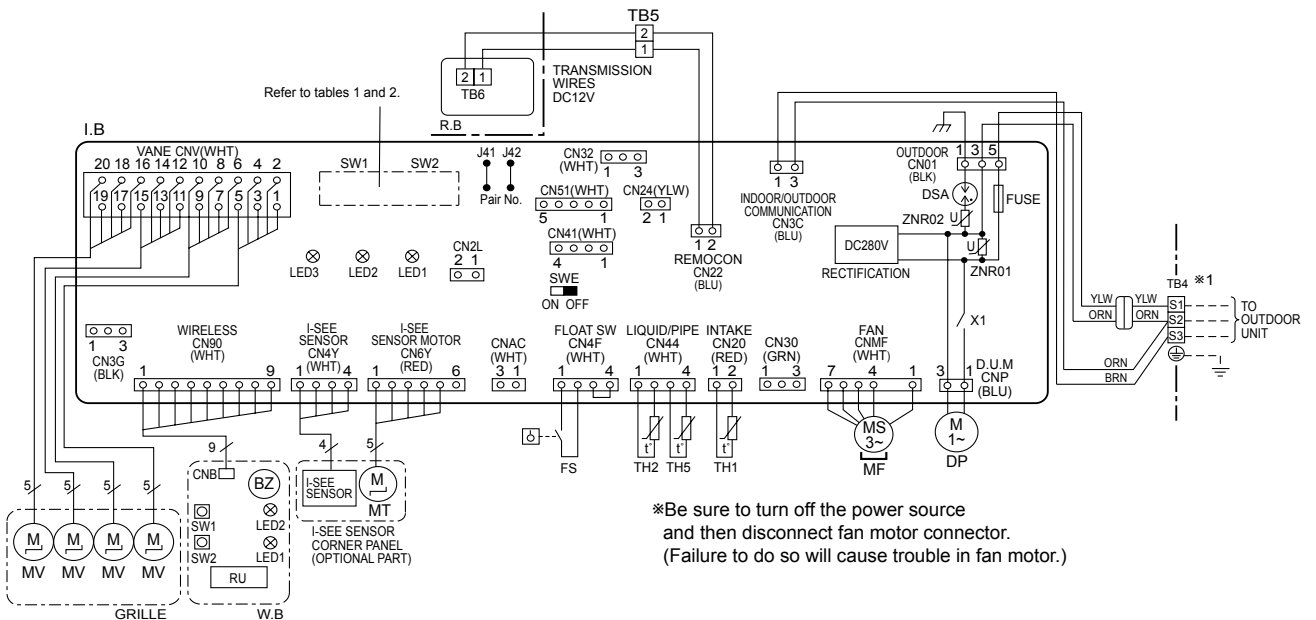
Unit: mm (inch)



PLA-A12BA PLA-A18BA PLA-A24BA PLA-A30BA PLA-A36BA PLA-A42BA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	MF	FAN MOTOR
CN2L	CONNECTOR (LOSSNAY)	MV	VANE MOTOR
CN24	CONNECTOR<BACK-UP HEATING>	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN30	CONNECTOR<LLC>	TB5,TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN32	CONNECTOR (REMOTE SWITCH)	TH1	ROOM TEMP. THERMISTOR (32' F/ 15kΩ, 77' F / 5.4kΩ DETECT)
CN41	CONNECTOR (HA TERMINAL-A)	TH2	PIPE TEMP. THERMISTOR/LIQUID (32' F/ 15kΩ, 77' F/ 5.4kΩ DETECT)
CN51	CONNECTOR (CENTRALLY CONTROL)	TH5	COND. / EVA. TEMP. THERMISTOR (32' F/ 15kΩ, 77' F/ 5.4kΩ DETECT)
DSA	SURGE ABSORBER	OPTION PART	
FUSE	FUSE (T6.3AL250V)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
LED1	POWER SUPPLY (I.B)	BZ	BUZZER
LED2	POWER SUPPLY (R.B)	LED1	LED (OPERATION INDICATION : GREEN)
LED3	TRANSMISSION (INDOOR-OUTDOOR)	LED2	LED (PREPARATION FOR HEATING : ORANGE)
SW1	SWITCH (MODEL SELECTION) *See table 1.	RU	RECEIVING UNIT
SW2	SWITCH (CAPACITY CODE) *See table 2.	SW1	EMERGENCY OPERATION (HEAT / DOWN)
SWE	CONNECTOR (EMERGENCY OPERATION)	SW2	EMERGENCY OPERATION (COOL / UP)
X1	RELAY (DRAIN PUMP)		
ZNR01,02	VARISTOR		
DP	DRAIN-UP MACHINE		
FS	DRAIN FLOAT SWITCH		



<Table 1>SW1(MODEL SELECTION)

SW1	Service
1 2 3 4 5	ON OFF

<Table 2>SW2(CAPACITY CODE)

SW2			
MODELS	Service	MODELS	Service
PLA-A12BA	1 2 3 4 5 ON OFF	PLA-A30BA	1 2 3 4 5 ON OFF
PLA-A18BA	1 2 3 4 5 ON OFF	PLA-A36BA	1 2 3 4 5 ON OFF
PLA-A24BA	1 2 3 4 5 ON OFF	PLA-A42BA	1 2 3 4 5 ON OFF

Notes: 1. Symbols used in wiring diagram above are, : Connector, : Terminal block.

- Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wiring.
- Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring for servicing.

*1. Use copper supply wires.

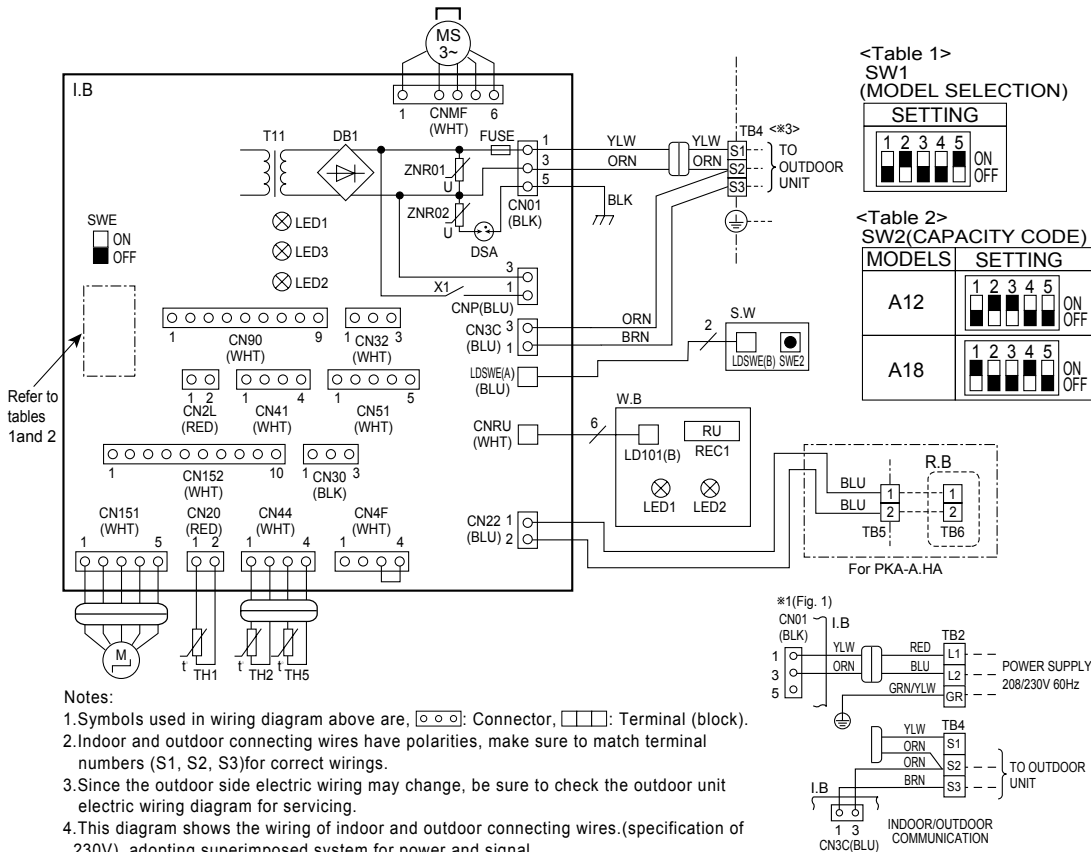
[Self-diagnosis]

- For details on how to operate self-diagnosis with the wireless remote control, refer to the technical manuals etc.
- For the wired remote control: When you quickly press twice the CHECK switch on the remote control, the unit begins self-diagnosis, and Check Codes generated in the past appear on the display.

PKA-A12HA PKA-A18HA PKA-A12HAL PKA-A18HAL

[Explanation of symbols]

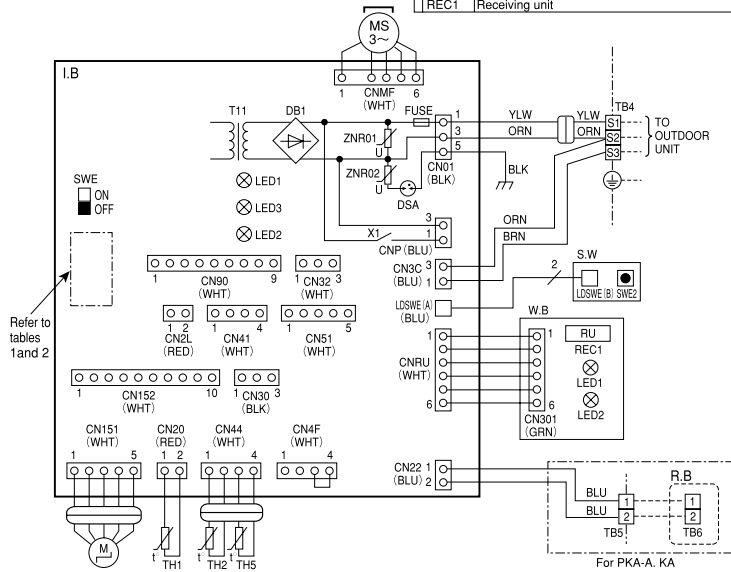
Symbol	Name	Symbol	Name
I.B	Indoor controller board	M	Vane motor
CN2L	Connector (LOSSNAY)	MS	Fan motor
CN30	Connector (LLC)	S.W	Switch board
CN32	Connector (Remote switch)	SWE2	Emergency operation
CN41	Connector (HA terminal-A)	TB2	Terminal block (Indoor unit Power (option))
CN51	Connector (Centrally control)	TB4	Terminal block (Indoor/outdoor connecting line)
CN90	Connector (Remote operation adapter)	TB5	Terminal block (Remote controller transmission line)
CN152	Connector (Back-up heating)	TH1	Room temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
DSA	Surge absorber	TH2	Pipe temp. Thermistor/liquid (32°F/15KΩ, 77°F/5.4KΩ Detect)
FUSE	FUSE(T3.15AL250V)	TH5	Cond./eva. temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
LED1	Power supply (I.B)	WB	Pcb for wireless remote controller
LED2	Power supply (R.B)	LED1	LED (Operation indication: Green)
LED3	Transmission (Indoor-outdoor)	LED2	LED (Preparation for heating: Orange)
SW1	Switch (Model selection) *See table 1	REC1	Receiving unit
SW2	Switch (Capacity code) *See table 2		
SWE	Connector (Emergency operation)		
ZNR01,02	Varistor		
R.B	Wired remote controller		
TB6	Terminal block (Remote controller transmission line)		



PKA-A24KA PKA-A24KAL PKA-A30KA PKA-A30KAL PKA-A36KA PKA-A36KAL

[Explanation of symbols]

Symbol	Name	Symbol	Name
I.B	Indoor controller board	R.B	Wired remote controller
CN2L	Connector (LOSSNAY)	TB6	Terminal block (Remote controller transmission line)
CN30	Connector (LLC)	M	Vane motor
CN32	Connector (Remote switch)	MS	Fan motor
CN41	Connector (HA terminal-A)	S.W	Switch board
CN51	Connector (Centrally control)	SWE2	Emergency operation
CN90	Connector (Remote operation adapter)	TB2	Terminal block(Indoor unit Power (option))
CN152	Connector (Back-up heating)	TB4	Terminal block (Indoor/outdoor connecting line)
DSA	Surge absorber	TB5	Terminal block (Remote controller transmission line)
FUSE	FUSE(T3.15AL250V)	TH1	Room temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
LED1	Power supply (I.B)	TH2	Pipe temp. Thermistor/liquid (32°F/15KΩ, 77°F/5.4KΩ Detect)
LED2	Power supply (R.B)	TH5	Cond./eva. temp. Thermistor (32°F/15KΩ, 77°F/5.4KΩ Detect)
LED3	Transmission (Indoor-outdoor)	W.B	Pcb for wireless remote controller
SW1	Switch (Model selection) ※See table 1	LED1	LED (Operation indication : Green)
SW2	Switch (Capacity code) ※See table 2	LED2	LED (Preparation for heating : Orange)
SWE	Connector (Emergency operation)	REC1	Receiving unit
ZNR01.02	Varistor		

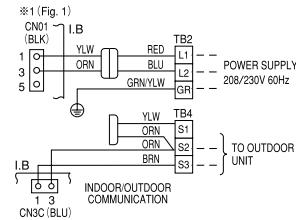


<Table 1>
SW1 (MODEL SELECTION)

SETTING
1 2 3 4 5 ON OFF

<Table 2>
SW2 (CAPACITY CODE)

MODELS	SETTING	MODELS	SETTING	MODELS	SETTING
PKA-A24KA (L)	1 2 3 4 5 ON OFF	PKA-A30KA (L)	1 2 3 4 5 ON OFF	PKA-A36KA (L)	1 2 3 4 5 ON OFF



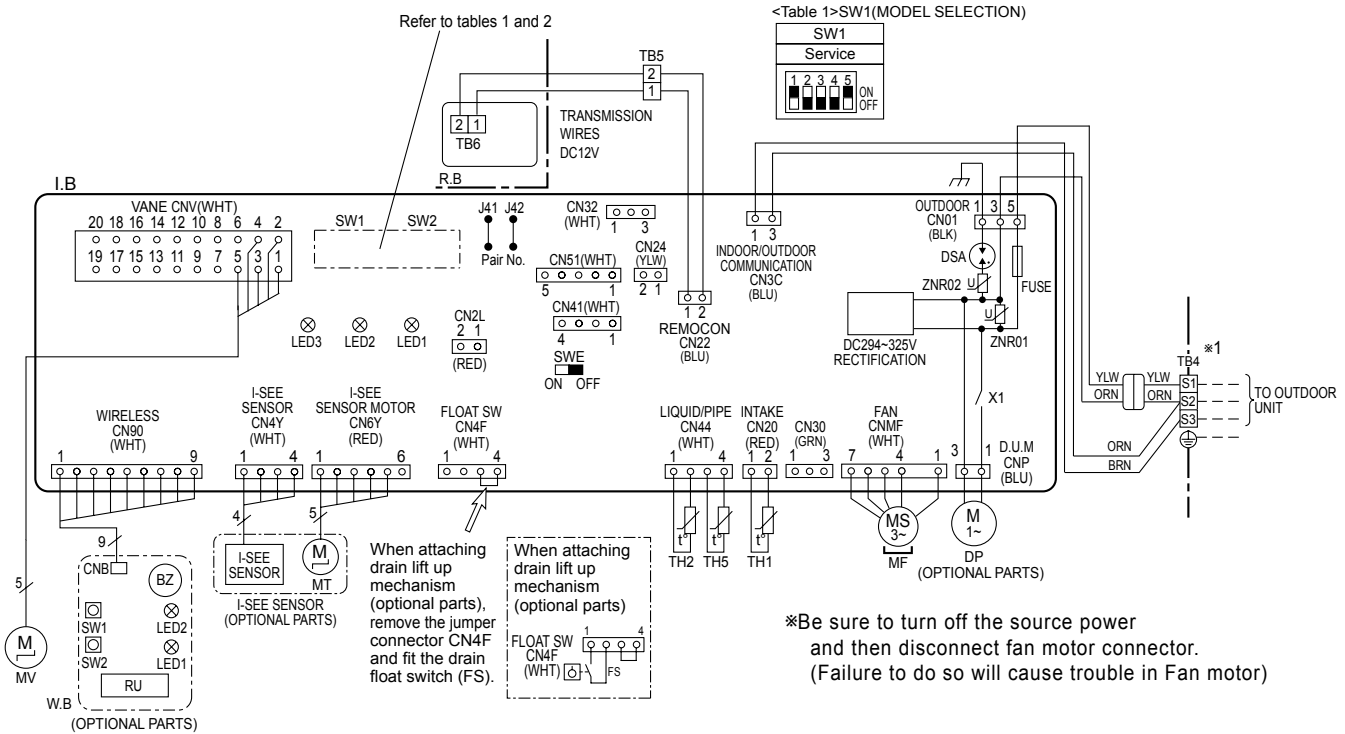
Notes:

- 1.Symbols used in wiring diagram above are, : Connector, : Terminal (block).
- 2.Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3)for correct wirings.
- 3.Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
- 4.This diagram shows the wiring of indoor and outdoor connecting wires.(specification of 230V), adopting superimposed system for power and signal.
 - ※1: If indoor and outdoor units have separate power supplies, refer to Fig 1.
 - ※2: For power supply system of this unit, refer to the caution label located near this diagram.
 - ※3: Use copper supply wires.

PCA-A24KA PCA-A30KA PCA-A36KA PCA-A42KA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN2L	CONNECTOR (LOSSNAY)	TB5,TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN24	CONNECTOR (BACK-UP HEATING)	TH1	ROOM TEMP. THERMISTOR (32°F / 15kΩ, 77°F/ 5. 4kΩ DETECT)
CN30	CONNECTOR (LLC)	TH2	PIPE TEMP. THERMISTOR/LIQUID (32°F / 15kΩ, 77°F/ 5. 4kΩ DETECT)
CN32	CONNECTOR (REMOTE SWITCH)	TH5	COND. / EVA. TEMP. THERMISTOR (32°F / 15kΩ, 77°F/ 5. 4kΩ DETECT)
CN41	CONNECTOR (HA TERMINAL-A)		
CN51	CONNECTOR (CENTRALLY CONTROL)		
DSA	SURGE ABSORBER		
FUSE	FUSE (T6.3AL250V)		
LED1	POWER SUPPLY (I.B)	OPTIONAL PARTS	
LED2	POWER SUPPLY (R.B)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
LED3	TRANSMISSION (INDOOR-OUTDOOR)	BZ	BUZZER
SW1	SWITCH (MODEL SELECTION) *See table 1	LED1	LED (OPERATION INDICATION : GREEN)
SW2	SWITCH (CAPACITY CODE) *See table 2	LED2	LED (PREPARATION FOR HEATING : ORANGE)
SWE	CONNECTOR (EMERGENCY OPERATION)	RU	RECEIVING UNIT
X1	RELAY (DRAIN LIFT UP MECHANISM)	SW1	EMERGENCY OPERATION (HEAT / DOWN)
ZNR01,02	VARISTOR	SW2	EMERGENCY OPERATION (COOL / UP)
R.B	WIRED REMOTE CONTROLLER BOARD	DP	DRAIN LIFT UP MECHANISM
MF	FAN MOTOR	FS	DRAIN FLOAT SWITCH
MV	VANE MOTOR		



<Table 2>SW2(CAPACITY CODE)

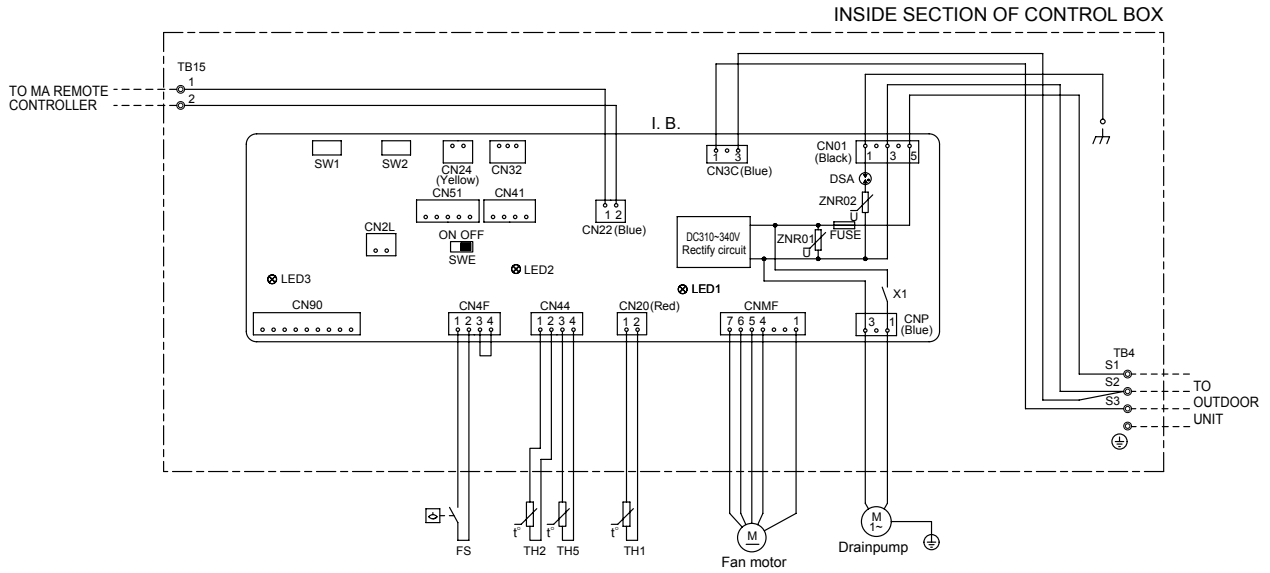
SW2			
MODELS	Service	MODELS	Service
PCA-A24KA	1 2 3 4 5 ON OFF	PCA-A36KA	1 2 3 4 5 ON OFF
PCA-A30KA	1 2 3 4 5 ON OFF	PCA-A42KA	1 2 3 4 5 ON OFF

- Notes: 1. Symbols used in wiring diagram above are, : Connector, : Terminal block.
2. Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
3. Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring for servicing.
- *1: Use copper supply wire.

[Self-diagnosis]

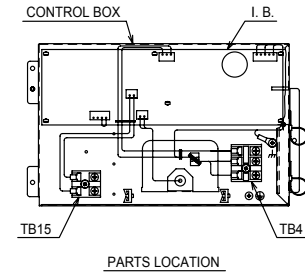
- For details on how to operate self-diagnosis with the wireless remote control, refer to the technical manuals etc.
- For the wired remote control: When you quickly press twice the CHECK switch on the remote control, the unit begins self-diagnosis, and Check Codes generated in the past appear on the display. For Check Codes and Symptoms refer to the table below.

PEA-A12AA PEA-A18AA



SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME
I. B.	INDOOR CONTROLLER BOARD	LED2	POWER SUPPLY(I.B.)
FUSE	FUSE AC250V 6.3A	LED3	TRANSMISSION(INDOOR-OUTDOOR)
ZNR01,02	VARIATOR	SW1	SWITCH (FOR MODE SELECTION)
DSA	ARRESTER	SW2	SWITCH (FOR CAPACITY CODE)
X1	AUX. RELAY	SWE	CONNECTOR (EMERGENCY OPERATION)
CN2L	CONNECTOR (LOSSNAY)	TH1	INTAKE AIR TEMP. THERMISTOR
CN24	CONNECTOR (BACK-UP HEATING)	TH2	PIPE TEMP. THERMISTOR/LIQUID
CN32	CONNECTOR (REMOTE SWITCH)	TH5	COND./EVA. TEMP. THERMISTOR
CN41	CONNECTOR (HA TERMINAL-A)	FS	FLOAT SWITCH
CN51	CONNECTOR (CENTRALLY CONTROL)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN90	CONNECTOR (WIRELESS)	TB15	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
LED1	POWER SUPPLY(I.B.)		

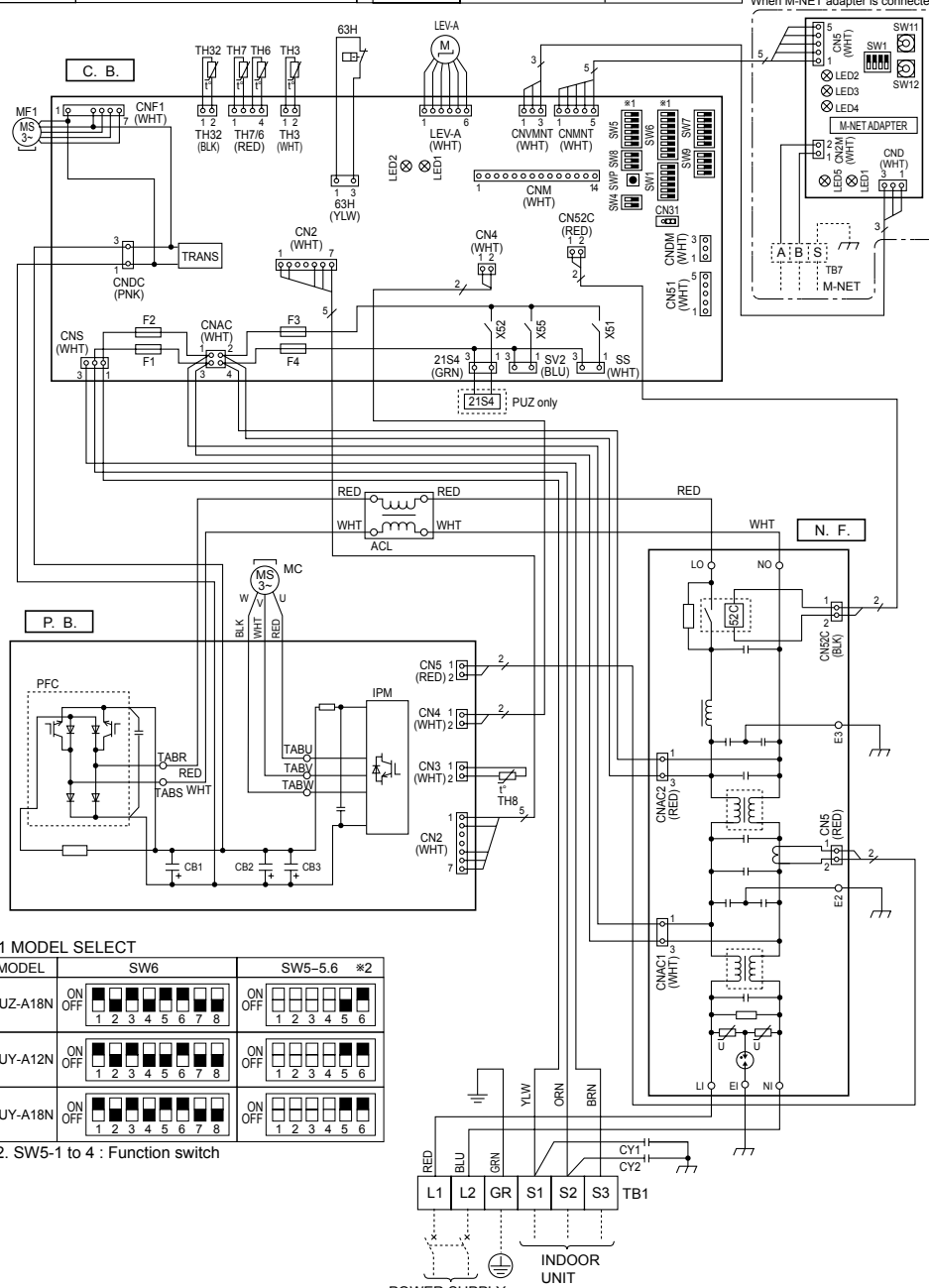


- Note1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2. Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
3. Symbols used in wiring diagram above are: ⊖: Connector, ⊙: Terminal.
4. Use copper supply wire.

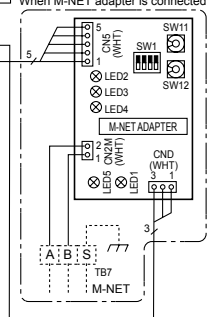
PUZ-A18NHA3 PUZ-A18NHA3-BS PUY-A12/18NHA3 PUY-A12/18NHA3-BS

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	PFC	Converter	SW9	Switch
MC	Motor for Compressor	IPM	Power Module	LED1,LED2	LED<Operation Inspection Indicators>
MF1	Fan Motor	CB1~CB3	Main Smoothing Capacitor	F1~F4	Fuse<T6.3AL250V>
21S4	Solenoid Valve (Four-Way Valve)	N.F.	Noise Filter Circuit Board	SWP	Switch<Pump Down>
63H	High Pressure Switch	LI/LO	Connection Terminal<L1-Phase>	CN31	Connector<Emergency Operation>
TH3	Thermistor<Outdoor Pipe>	NI/NO	Connection Terminal<L2-Phase>	SS	Connector<Connection for Option>
TH6	Thermistor<Outdoor 2-Phase Pipe>	E1,E2,E3	Connection Terminal<Ground>	CNM	Connector<A-Control Service Inspection Kit>
TH7	Thermistor<Outdoor>	52C	52C Relay	CNMNT	Connector<Connected to Optional M-NET Adapter Board>
TH8	Thermistor<Heatsink>	C.B.	Controller Circuit Board	CNMVNT	Connector<Connected to Optional M-NET Adapter Board>
TH32	Thermistor<Shell>	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CNDM	Connector<Connected for Option (Contact Input)>
LEV-A	Electronic Expansion Valve	SW4	Switch<Test Operation>	CN51	Connector<Connected for Option (Signal output)>
ACL	Reactor	SW5	Switch<Function Switch>	X51, X52, X55	Relay
CY1,CY2	Capacitor	SW6	Switch<Function Switch>		
P.B.	Power Circuit Board	SW7	Switch<Function Setup>		
TABR/S	Connection Terminal<L1/L2-Phase>	SW8	Switch<Function Setup>		
TABU/V/W	Connection Terminal<U/V/W-Phase>				



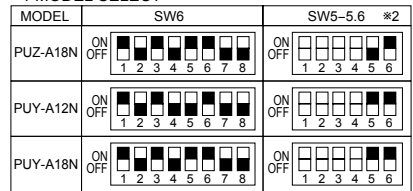
When M-NET adapter is connected



M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-net connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW11	Switch<Status of communication>
SW12	Switch<Address setting : 1s digit>
LED1	LED<Power Supply : DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission : Sending>
LED4	LED<Transmission : Receiving>
LED5	LED<Power Supply : DC12V>

***1 MODEL SELECT**



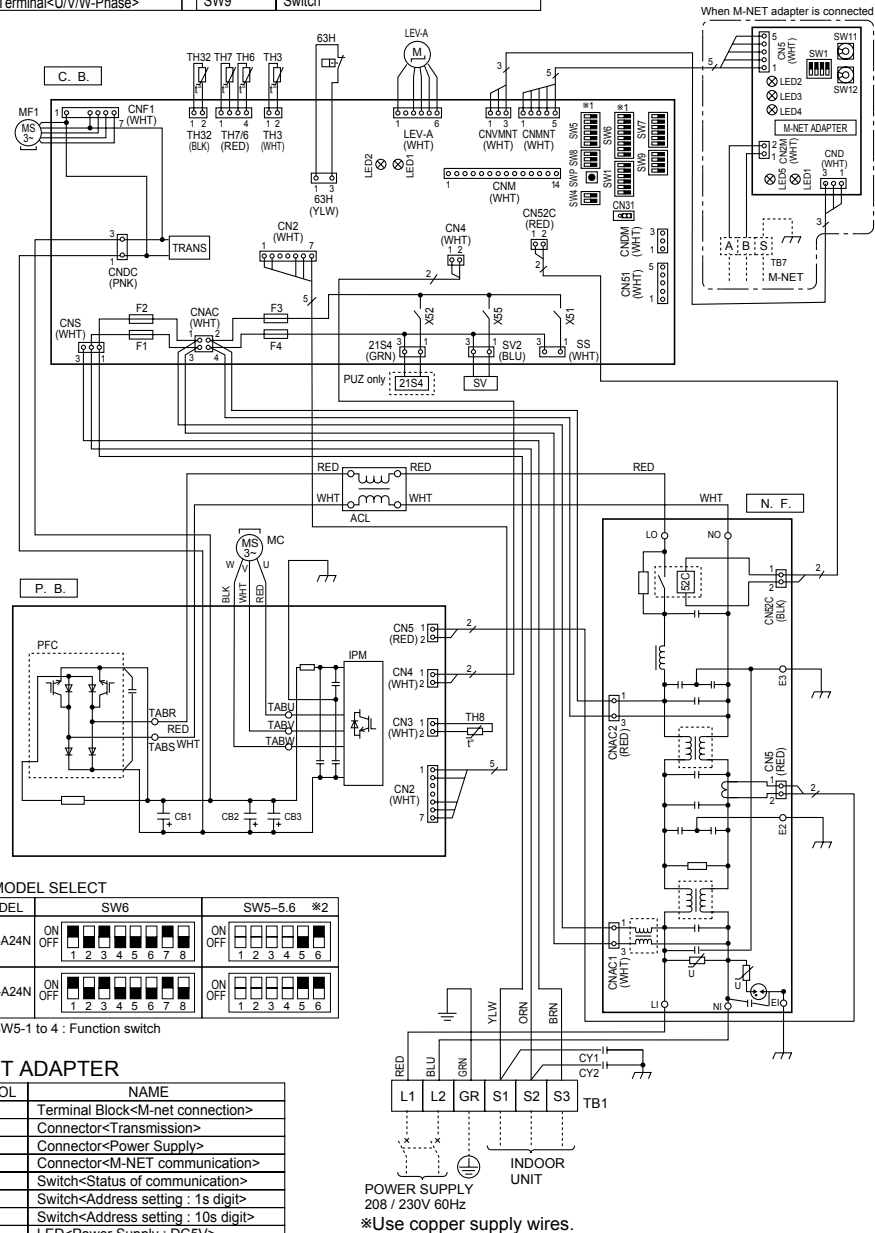
*2. SW5-1 to 4 : Function switch

POWER SUPPLY 208 / 230V 60Hz *Use copper supply wires.

PUZ-A24NHA3 PUZ-A24NHA3-BS PUY-A24NHA3 PUY-A24NHA3-BS

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	PFC	Converter	LED1,LED2	LED<Operation Inspection Indicators>
MC	Motor for Compressor	IPM	Power Module	F1-F4	Fuse<T6.3AL250V>
MF1	Fan Motor	CB1-CB3	Main Smoothing Capacitor	SWP	Switch<Pump Down>
21S4	Solenoid Valve (Four-Way Valve)	N.F.	Noise Filter Circuit Board	CN31	Connector<Emergency Operation>
63H	High Pressure Switch	LI/LO	Connection Terminal<L1-Phase>	SS	Connector<Connection for Option>
SV	Solenoid Valve (Bypass Valve)	NI/NO	Connection Terminal<L2-Phase>	CNM	Connector<A-Control Service Inspection Kit>
TH3	Thermistor<Outdoor Pipe>	E1,E2,E3	Connection Terminal<Ground>	CNMNT	Connector <Connected to Optional M-NET Adapter Board>
TH6	Thermistor<Outdoor 2-Phase Pipe>	52C	52C Relay	CNMVNT	Connector <Connected to Optional M-NET Adapter Board>
TH7	Thermistor<Outdoor>	C.B.	Controller Circuit Board	CNDM	Connector <Connected for Option (Contact Input)>
TH8	Thermistor<Heatsink>	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CN51	Connector <Connected for Option (Signal output)>
TH32	Thermistor<Shell>	SW4	Switch<Test Operation>	X51,X52,X55	Relay
LEV-A	Electronic Expansion Valve	SW5	Switch<Function Switch>		
ACL	Reactor	SW6	Switch<Model Select>		
CY1,CY2	Capacitor	SW7	Switch<Function Setup>		
P.B.	Power Circuit Board	SW8	Switch<Function Setup>		
TABR/S	Connection Terminal<L1/L2-Phase>	SW9	Switch		
TABU/W/W	Connection Terminal<U/V/W-Phase>				



***1 MODEL SELECT**

MODEL	SW6	SW5-5.6	*2
PUZ-A24N	ON OFF [Switches 1-8]	ON OFF [Switches 1-6]	
PUY-A24N	ON OFF [Switches 1-8]	ON OFF [Switches 1-6]	

***2. SW5-1 to 4 : Function switch**

M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-net connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW1	Switch<Status of communication>
SW11	Switch<Address setting : 1s digit>
SW12	Switch<Address setting : 10s digit>
LED1	LED<Power Supply : DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission : Sending>
LED4	LED<Transmission : Receiving>
LED5	LED<Power Supply : DC12V>

PUZ-A30/36NHA3

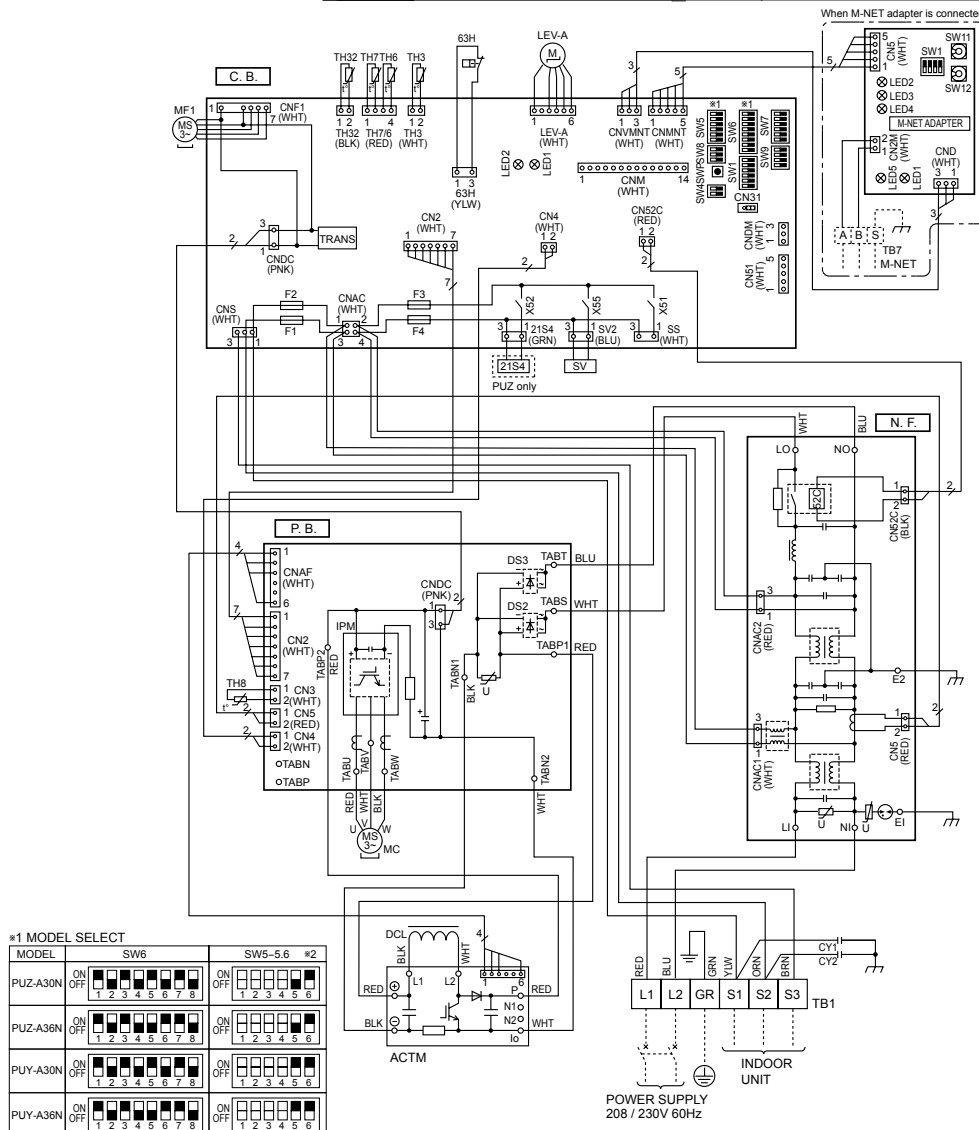
PUZ-A30/36NHA3-BS

PUY-A30/36NHA3

PUY-A30/36NHA3-BS

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	P.B.	Power Circuit Board	SW4	Switch<Test Operation>
MC	Motor for Compressor	TABU/V/W	Connection Terminal<U/V/W-Phase>	SW5	Switch<Function Switch>
MF1	Fan Motor	TABS/T	Connection Terminal<L1/L2-Phase>	SW6	Switch<Model Select>
21S4	Solenoid Valve (Four-Way Valve)	TABP1/P2	Connection Terminal<DC Voltage>	SW7	Switch<Function Setup>
SV	Solenoid Valve (Bypass Valve)	TABN1/N2	Connection Terminal<DC Voltage>	SW8	Switch<Function Setup>
63H	High Pressure Switch	DS2, DS3	Diode Bridge	SW9	Switch
TH3	Thermistor<Outdoor Pipe>	IPM	Power Module	SWP	Switch<Pump Down>
TH6	Thermistor<Outdoor 2-Phase Pipe>	N.F.	Noise Filter Circuit Board	CN31	Connector<Emergency Operation>
TH7	Thermistor<Outdoor>	L1/L0	Connection Lead<L1-Phase>	LED1,LED2	LED<Operation Inspection Indicators>
TH8	Thermistor<Heatsink>	N1/N0	Connection Lead<L2-Phase>	SS	Connector<Connection for Option>
TH32	Thermistor<Shell>	E1, E2	Connection Terminal<Ground>	CNM	Connector<A-Control Service Inspection Kit>
LEV-A	Electronic Expansion Valve	52C	52C Relay	CNMNT	Connector<Connected to Optional M-NET Adapter Board>
DCL	Reactor	C.B.	Controller Circuit Board	CNMVMT	Connector<Connected to Optional M-NET Adapter Board>
CY1, CY2	Capacitor	F1-F4	Fuse<T6.3AL250V>	CNDM	Connector<Connected to Option (Contact Input)>
ACTM	Active Filter Module	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CN51	Connector< Connected for Option (Signal output)>
				X51,X52,X55	Relay



※SW5-1 to 4 : Function switch

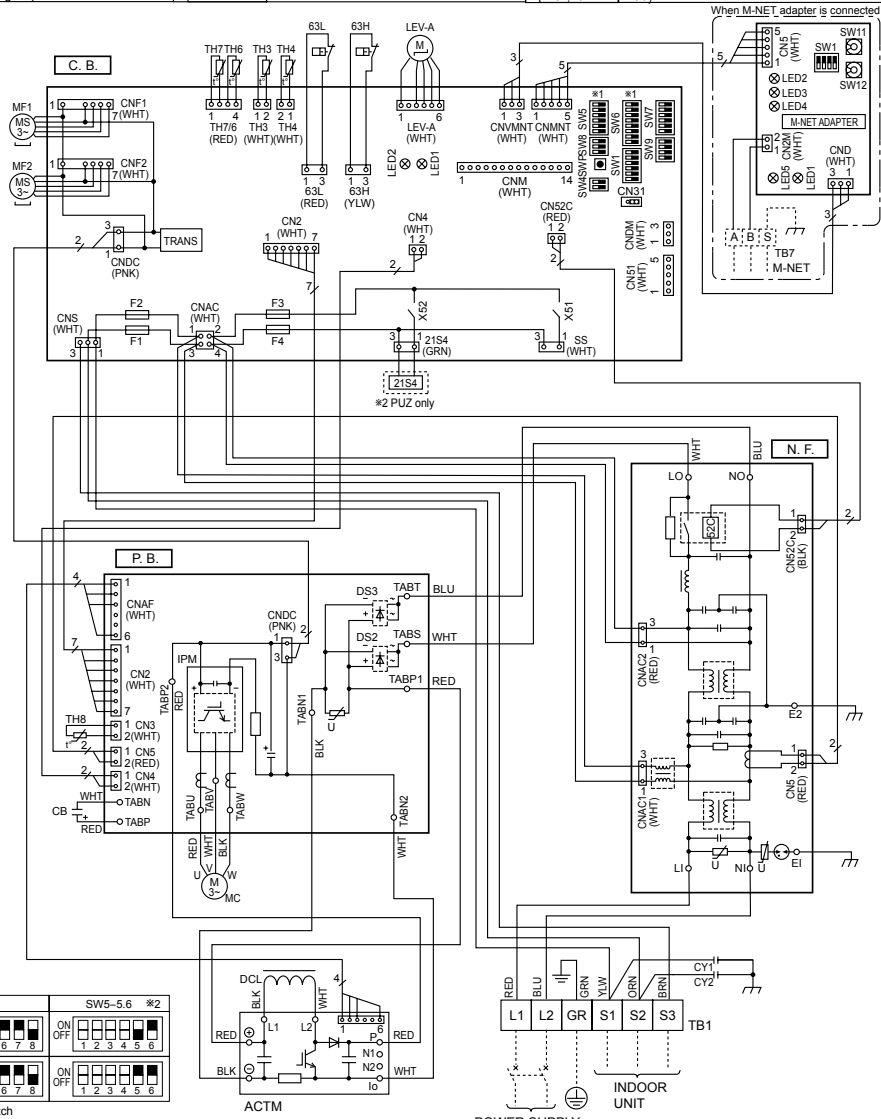
M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-net connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW1	Switch<Status of communication>
SW11	Switch<Address setting : 1s digit>
SW12	Switch<Address setting : 10s digit>
LED1	LED<Power Supply : DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission : Sending>
LED4	LED<Transmission : Receiving>
LED5	LED<Power Supply : DC12V>

PUZ-A42NHA3 PUZ-A42NHA3-BS PUY-A42NHA3 PUY-A42NHA3-BS

(LEGEND)

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	P.B.	Power Circuit Board	SW4	Switch<Test Operation>
MC	Motor for Compressor	TABU/V/W	Connection Terminal<U/V/W-Phase>	SW5	Switch<Function Switch>
MF1, MF2	Fan Motor	TABS/T	Connection Terminal<L1/L2-Phase>	SW6	Switch<Model Select>
21S4	Solenoid Valve (Four-Way Valve)	TABP1/P2/P	Connection Terminal<DC Voltage>	SW7	Switch<Function Setup>
63H	High Pressure Switch	TABN1/N2/N	Connection Terminal<DC Voltage>	SW8	Switch<Function Setup>
63L	Low Pressure Switch	DS2, DS3	Diode Bridge	SW9	Switch
TH3	Thermistor<Outdoor Pipe>	IPM	Power Module	SWP	Switch<Pump Down>
TH4	Thermistor<Discharge>	N.F.	Noise Filter Circuit Board	CN31	Connector<Emergency Operation>
TH6	Thermistor<Outdoor 2-Phase Pipe>	L1/L0	Connection Lead<L1-Phase>	LED1, LED2	LED<Operation Inspection Indicators>
TH7	Thermistor<Outdoor>	N1/N0	Connection Lead<L2-Phase>	SS	Connector<Connection for Option>
TH8	Thermistor<Heatsink>	E1, E2	Connection Terminal<Ground>	CNM	Connector<A-Control Service Inspection Kit>
LEV-A	Electronic Expansion Valve	52C	52C Relay	CNMNT	Connector<Connected to Optional M-NET Adapter Board>
DCL	Reactor	C.B.	Controller Circuit Board	CNMNT	Connector<Connected to Optional M-NET Adapter Board>
CY1, CY2	Capacitor	F1-F4	Fuse<T6.3AL250V>	CNDM	Connector< Connected for Option (Contact Input)>
ACTM	Active Filter Module	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CN51	Connector< Connected for Option (Signal output)>
CB	Main Smoothing Capacitor			X51, X52	Relay



#1 MODEL SELECT

MODEL	SW6	SW5-5.6 #2
PUZ-A42N	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
PUY-A42N	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6

#2. SW5-1 to 4 : Function switch

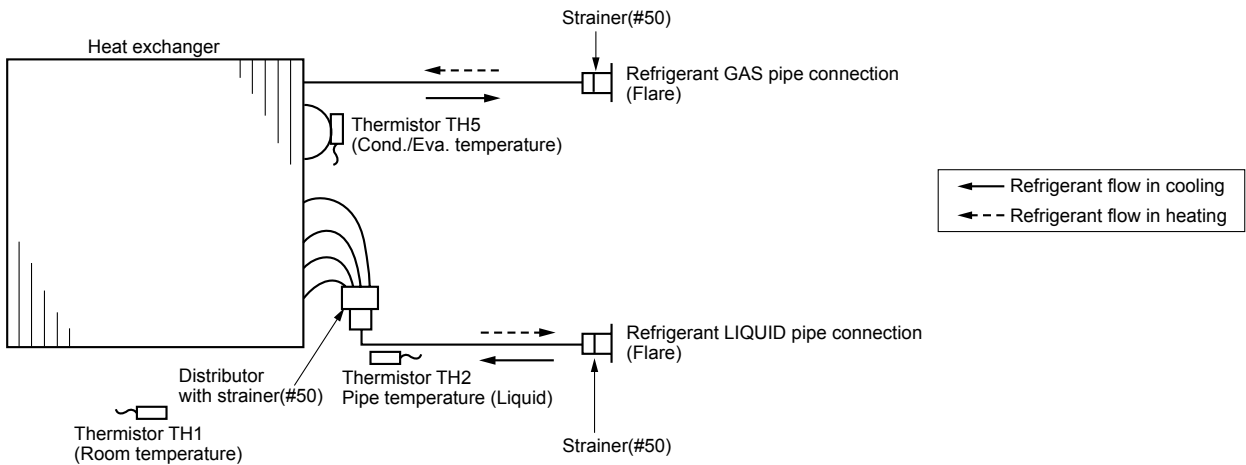
M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-net connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW1	Switch<Status of communication>
SW11	Switch<Address setting : 1s digit>
SW12	Switch<Address setting : 10s digit>
LED1	LED<Power Supply : DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission : Sending>
LED4	LED<Transmission : Receiving>
LED5	LED<Power Supply : DC12V>

POWER SUPPLY
208 / 230V 60Hz
*Use copper supply wires.

5-1. INDOOR UNIT

PLA-A-BA PCA-A-KA PEA-A-AA

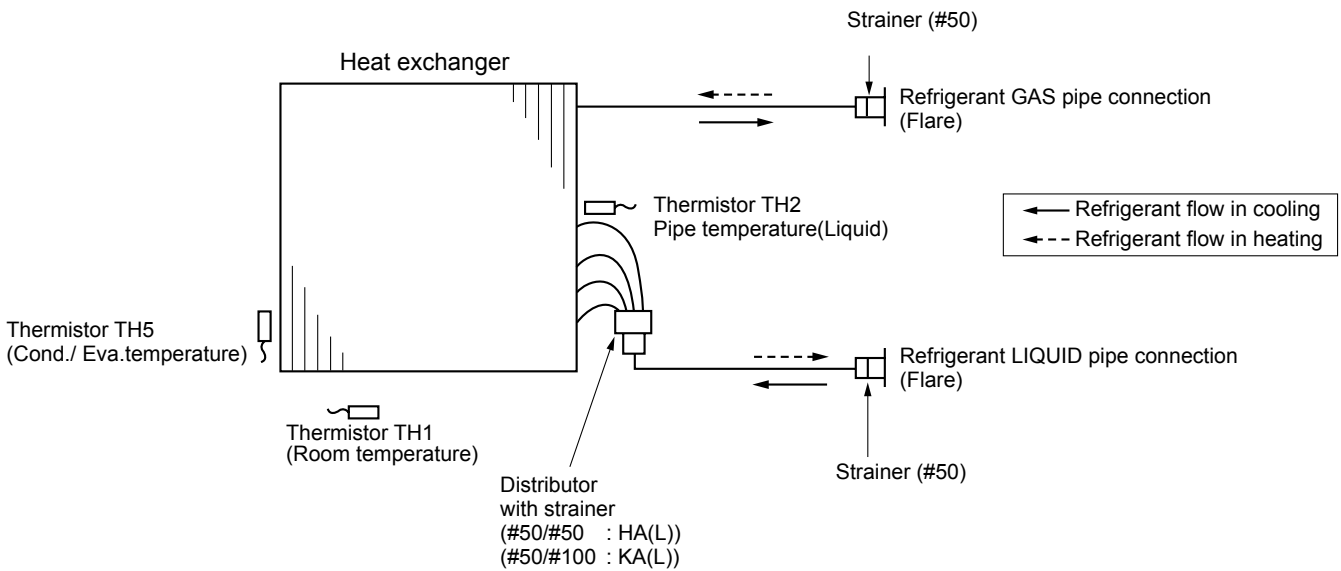


PKA-A-HA

PKA-A-HAL

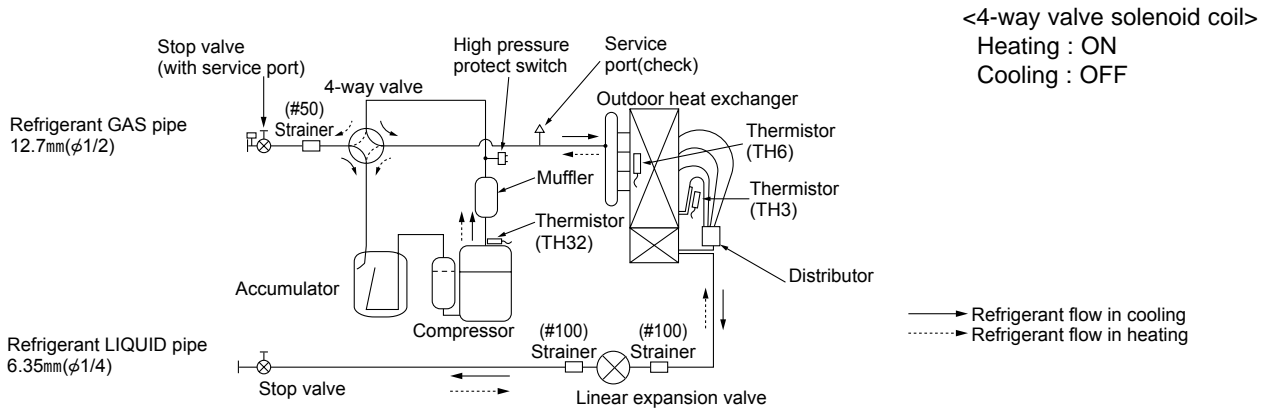
PKA-A-KA

PKA-A-KAL

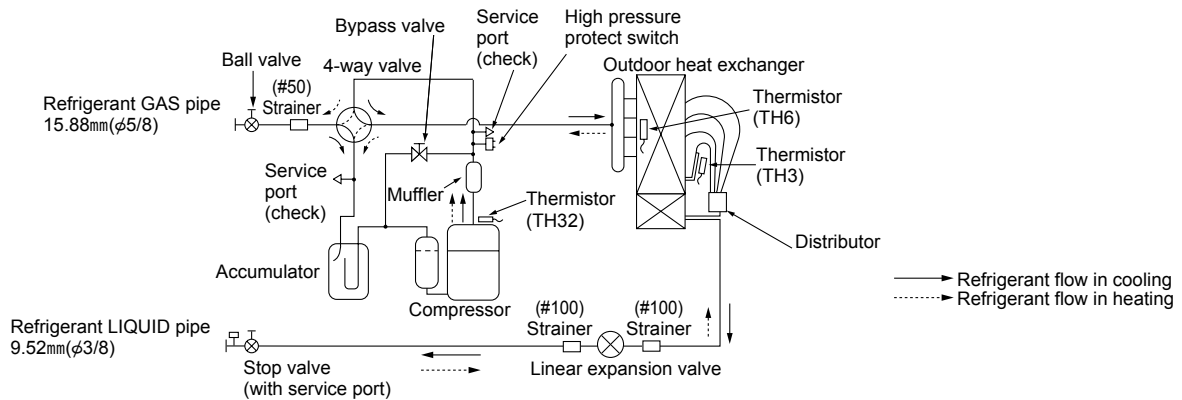


5-2. OUTDOOR UNIT PUZ-A18NHA3(-BS)

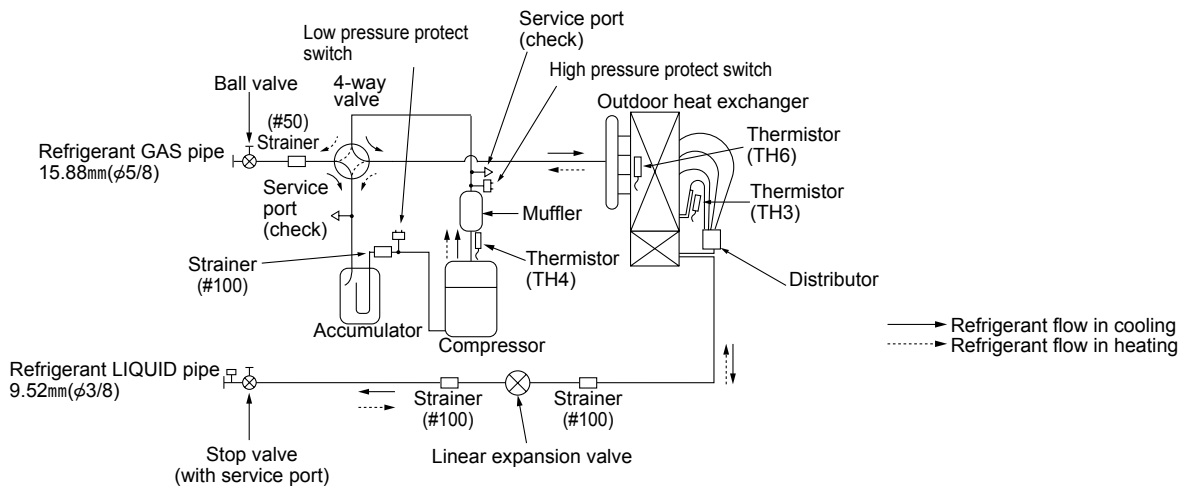
Unit: mm (inch)



PUZ-A24NHA3(-BS) PUZ-A30NHA3(-BS) PUZ-A36NHA3(-BS)

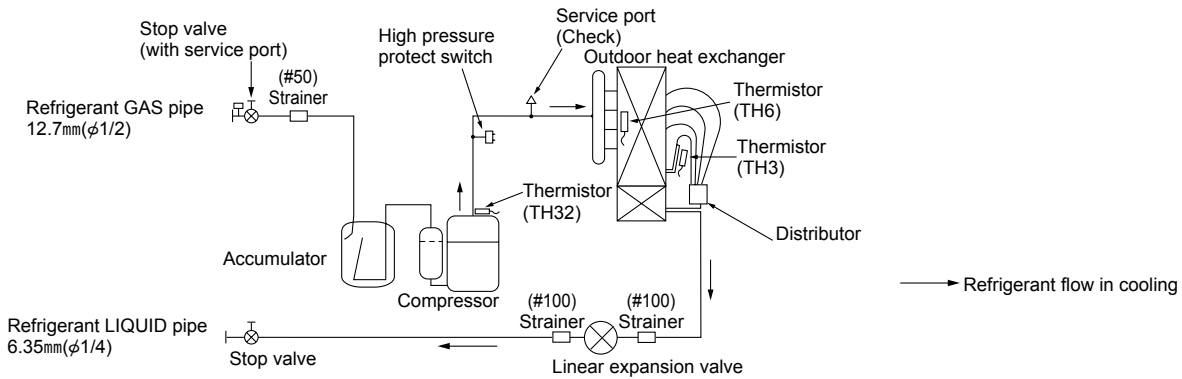


PUZ-A42NHA3(-BS)

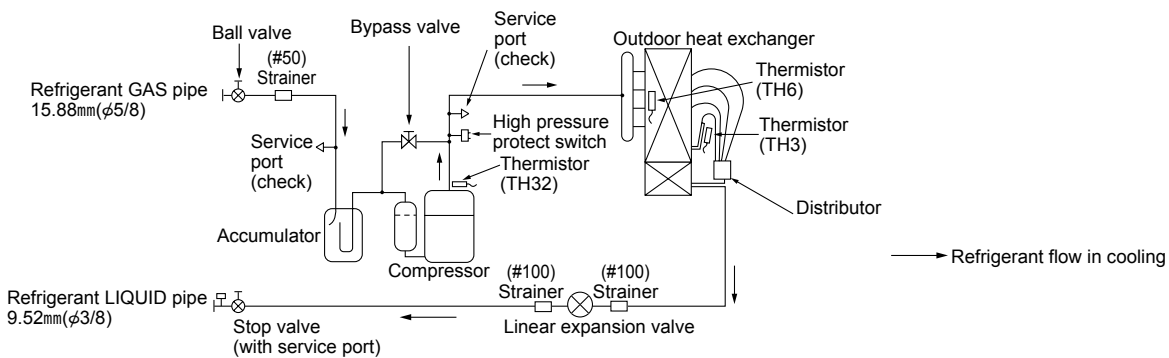


PUY-A12NHA3(-BS) PUY-A18NHA3(-BS)

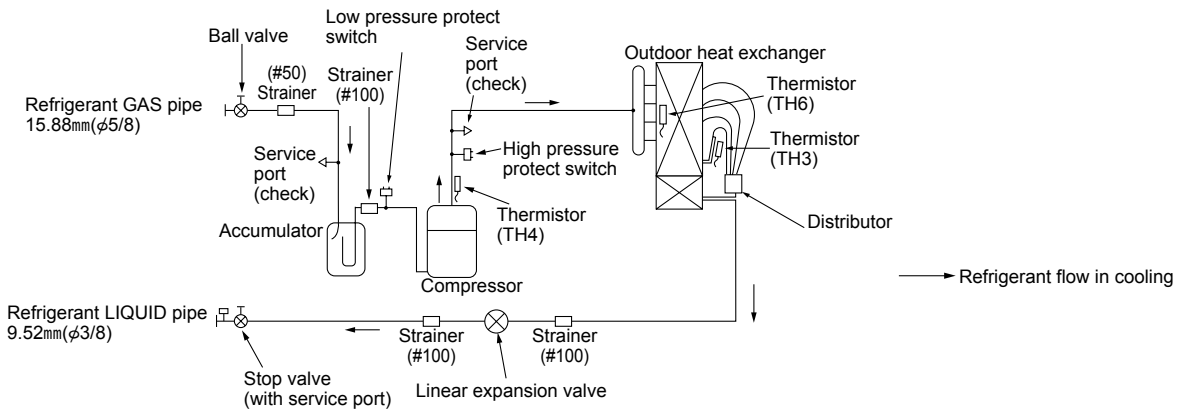
Unit: mm (inch)



PUY-A24NHA3(-BS) PUY-A30NHA3(-BS) PUY-A36NHA3(-BS)



PUY-A42NHA3(-BS)

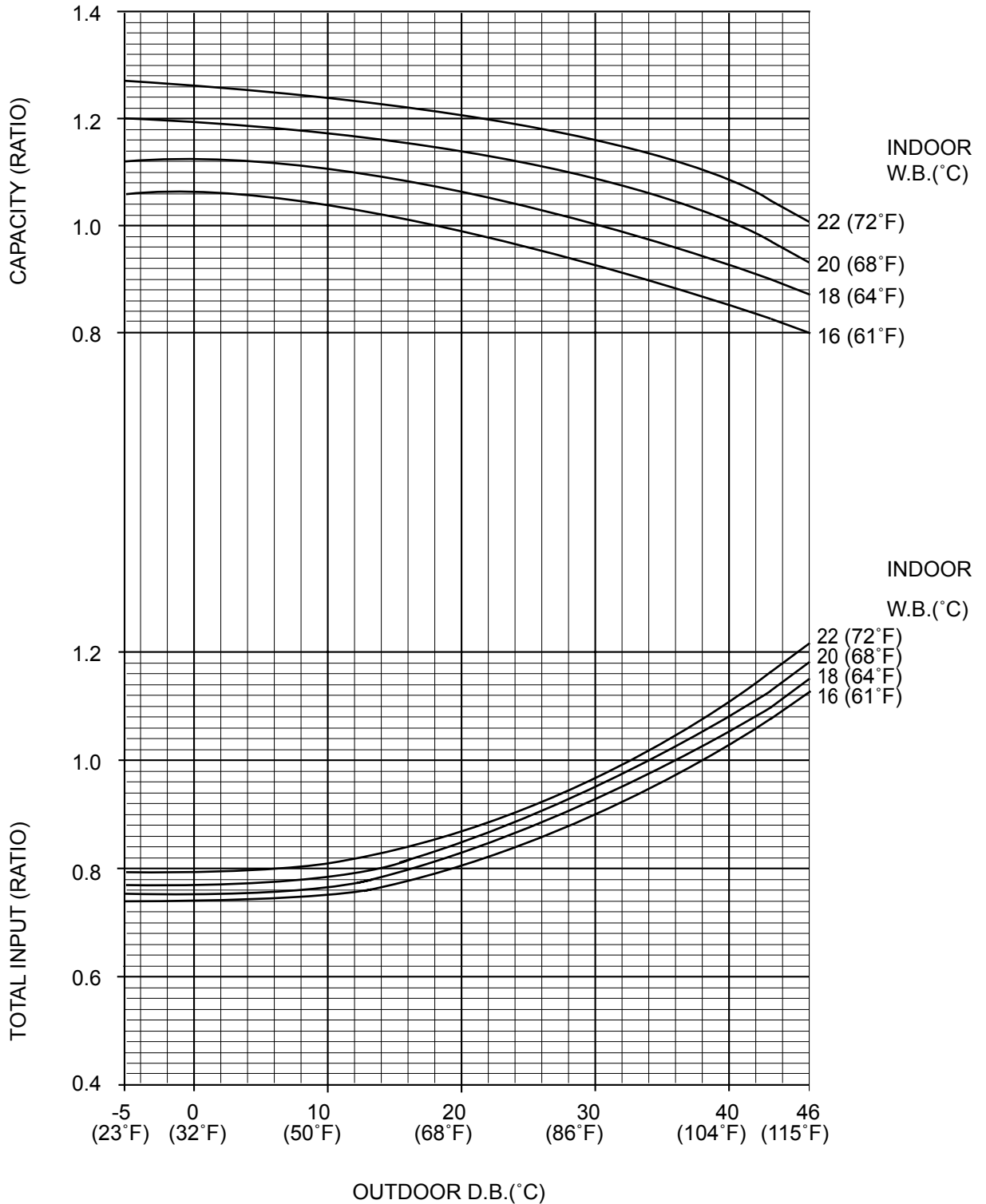


6

PERFORMANCE CURVES

FOR THE COMBINATION OF OUTDOOR UNIT PUZ-A-NHA3(-BS), PUY-A-NHA3(-BS)

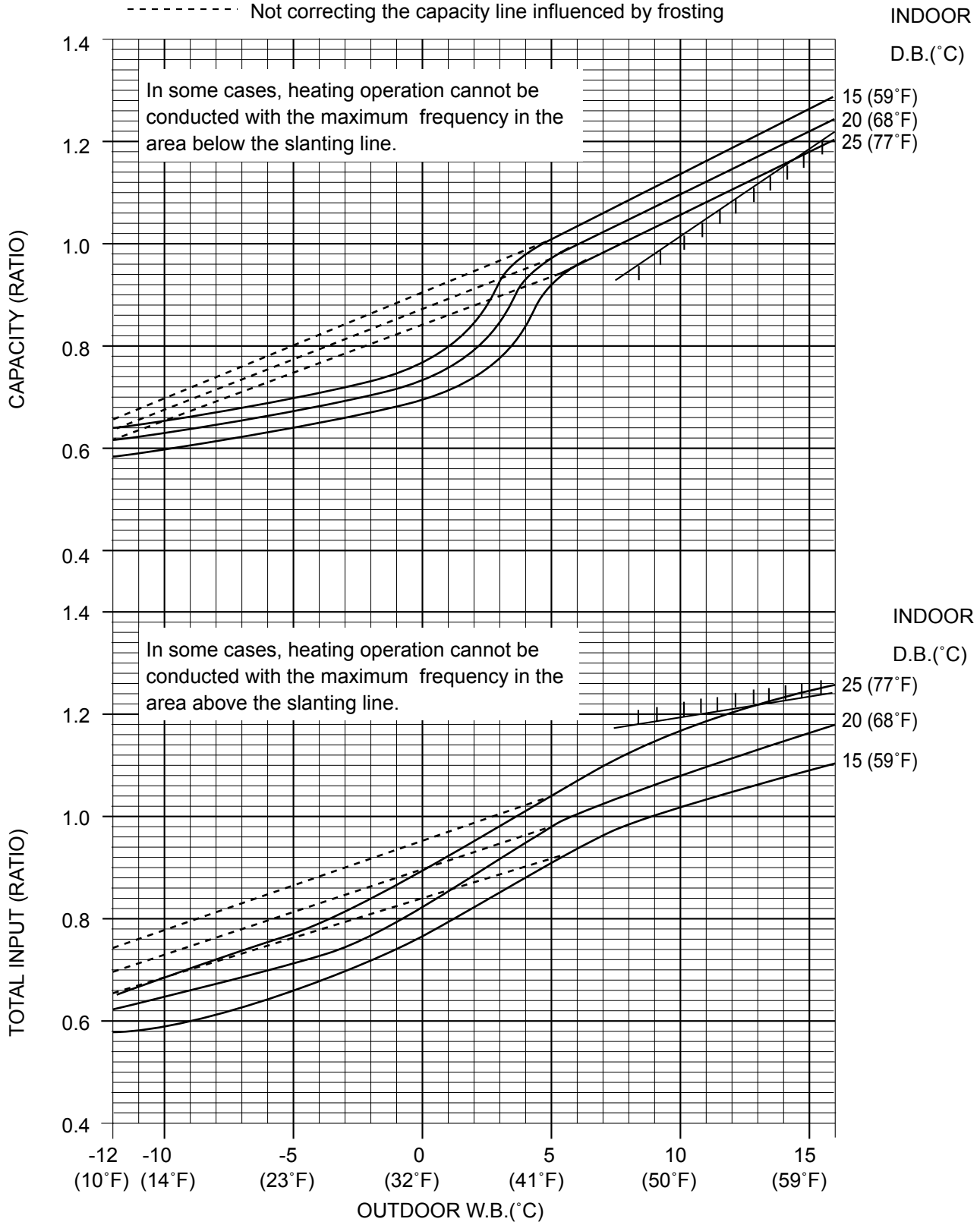
Cooling performance curve



Note : This diagram shows the case where the operation frequency of a compressor is fixed.

Heating performance curve

— Correcting the capacity line influenced by frosting
 - - - Not correcting the capacity line influenced by frosting



Note : This diagram shows the case where the operation frequency of a compressor is fixed.

7

CORRECTION FACTORS

7-1. COOLING CAPACITY CORRECTION FACTORS

Outdoor unit	Refrigerant piping length (one way)					
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)
PUY-A12/18 PUZ-A18	1.00	0.985	0.957	0.931	–	–
PUY-A24/30/36 PUZ-A24/30/36	1.00	0.988	0.966	0.946	0.929	0.913
PUY-A42 PUZ-A42	1.00	0.985	0.957	0.931	0.908	0.886

7-2. HEATING CAPACITY CORRECTION FACTORS

Outdoor unit	Refrigerant piping length (one way)					
	5m (16ft)	10m (33ft)	20m (70ft)	30m (100ft)	40m (130ft)	50m (165ft)
PUZ-A18	1.00	0.997	0.991	0.985	–	–
PUZ-A24/30/36	1.00	0.997	0.991	0.985	0.979	0.973
PUZ-A42	1.00	0.997	0.991	0.985	0.979	0.973

7-3. CAPACITY CORRECTION

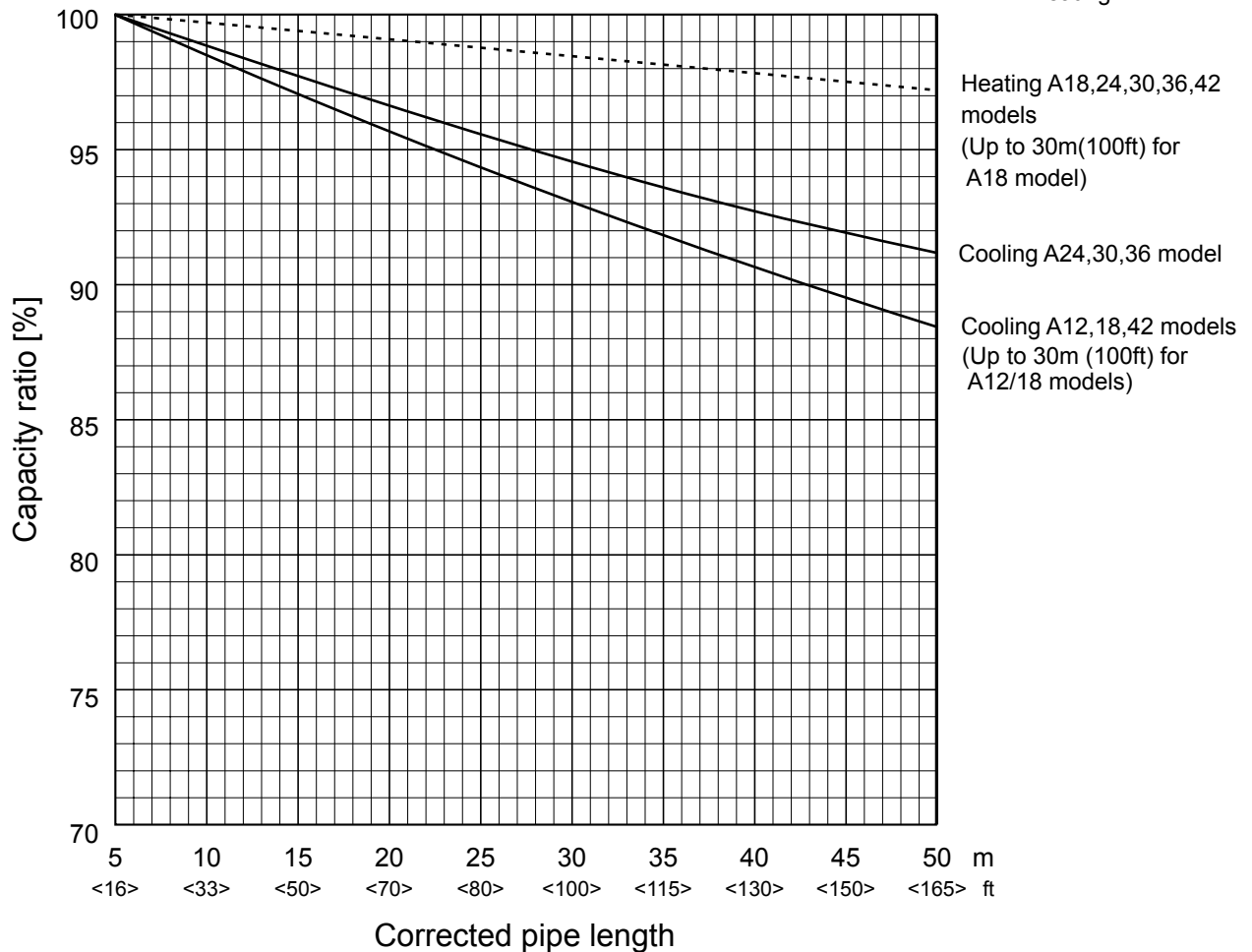
Cooling and heating capacity is lowered according to pipe length. Capacity can be obtained by referring to the capacity curves below.

Corrected pipe length (m) = actual pipe length (m) + number of bends x 0.3 (m)

Corrected pipe length (ft) = actual pipe length (ft) + number of bends x 1 (ft)

— Cooling

- - - - Heating



7-4. ADDITION OF REFRIGERANT

- Additional charging is not necessary if the pipe length does not exceed 20 m(70 ft) for A12-A36 or 30 m(100 ft) for A42.
- If the pipe length exceeds the specified length above, charge the unit with additional R410A refrigerant according to the permitted pipe lengths in the chart below.
 - * When the unit is stopped, charge the unit with the additional refrigerant through the liquid stop valve after the pipe extensions and indoor unit have been vacuumized.
 - * When the unit is operating, add refrigerant to the gas check valve using a safety charger. Do not add liquid refrigerant directly to the check valve.
 - * After charging the unit with refrigerant, note the added refrigerant amount on the service label (attached to the unit).
- Be careful when installing multiple units. Connecting to an incorrect indoor unit can lead to abnormally high pressure and have a serious effect on operation performance.

Model	Max. pipe length	Max. height difference	Additional refrigerant charging amount (kg/oz)										
			20 m 70 ft	25 m 80 ft	27 m 90 ft	30 m 100 ft	33.5 m 110 ft	36.6 m 120 ft	40 m 130 ft	43 m 140 ft	45.5 m 150 ft	48.8 m 160 ft	50 m 165 ft
A12, A18	30 m, 100 ft	30 m, 100 ft	0	0.06 kg 2 oz	0.11 kg 4 oz	0.17 kg 6 oz	–	–	–	–	–	–	–
A24, A30, A36	50 m, 165 ft	30 m, 100 ft	0	0.17 kg 6 oz	0.34 kg 12 oz	0.51 kg 18 oz	0.68 kg 24 oz	0.85 kg 30 oz	1.02 kg 36 oz	1.19 kg 42 oz	1.36 kg 48 oz	1.53 kg 54 oz	1.70 kg 60 oz
A42	50 m, 165 ft	30 m, 100 ft	0	0	0	0	0.17 kg 6 oz	0.34 kg 12 oz	0.51 kg 18 oz	0.68 kg 24 oz	0.85 kg 30 oz	1.02 kg 36 oz	1.19 kg 42 oz

8

AIR FLOW DATA

8-1. OUTLET AIR SPEED AND COVERAGE RANGE

	PLA-A12BA	PLA-A18BA	PLA-A24BA	PLA-A30BA	PLA-A36BA	PLA-A42BA
Air flow CFM	530	640	640	740	1060	1090
Air speed ft/sec.(m/sec.)	8.5(2.6)	10.5(3.2)	10.5(3.2)	12.1(3.7)	17.4(5.3)	17.7(5.4)
Coverage range ft(m)	13(4.1)	15(4.8)	15(4.8)	18(5.6)	26(8.0)	26(8.2)

	PKA-A12HA PKA-A12HAL	PKA-A18HA PKA-A18HAL
Air flow CFM	425	425
Air speed ft/sec.(m/sec.)	20.0(6.1)	20.0(6.1)
Coverage range ft(m)	35(10.8)	35(10.8)

	PKA-A24KA PKA-A24KAL	PKA-A30KA PKA-A30KAL	PKA-A36KA PKA-A36KAL
Air flow CFM	775	775	920
Air speed ft/sec.(m/sec.)	19.7(6.0)	19.7(6.0)	22.3(6.8)
Coverage range ft(m)	47(14.3)	47(14.3)	53(16.1)

	PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA
Air flow CFM	670	705	990	1025
Air speed ft/sec.(m/sec.)	10.2(3.1)	10.5(3.2)	11.8(3.6)	12.1(3.7)
Coverage range ft(m)	32(9.6)	33(10.1)	41(12.5)	42(12.9)

The air coverage range is the distance to which the 0.8 ft/sec. air can reach, when air is blown out horizontally from the unit at the High notch position.

The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

8-2. PLA-A-BA

8-2-1 FRESH AIR INTAKE AND BRANCH DUCT

1. Branch duct hole and fresh air intake hole (Fig. 1)

At the time of installation, use the duct holes (cut out) located at the positions shown in Fig.1, as and when required.
 • A fresh air intake hole for the optional multi function casement can also be made.

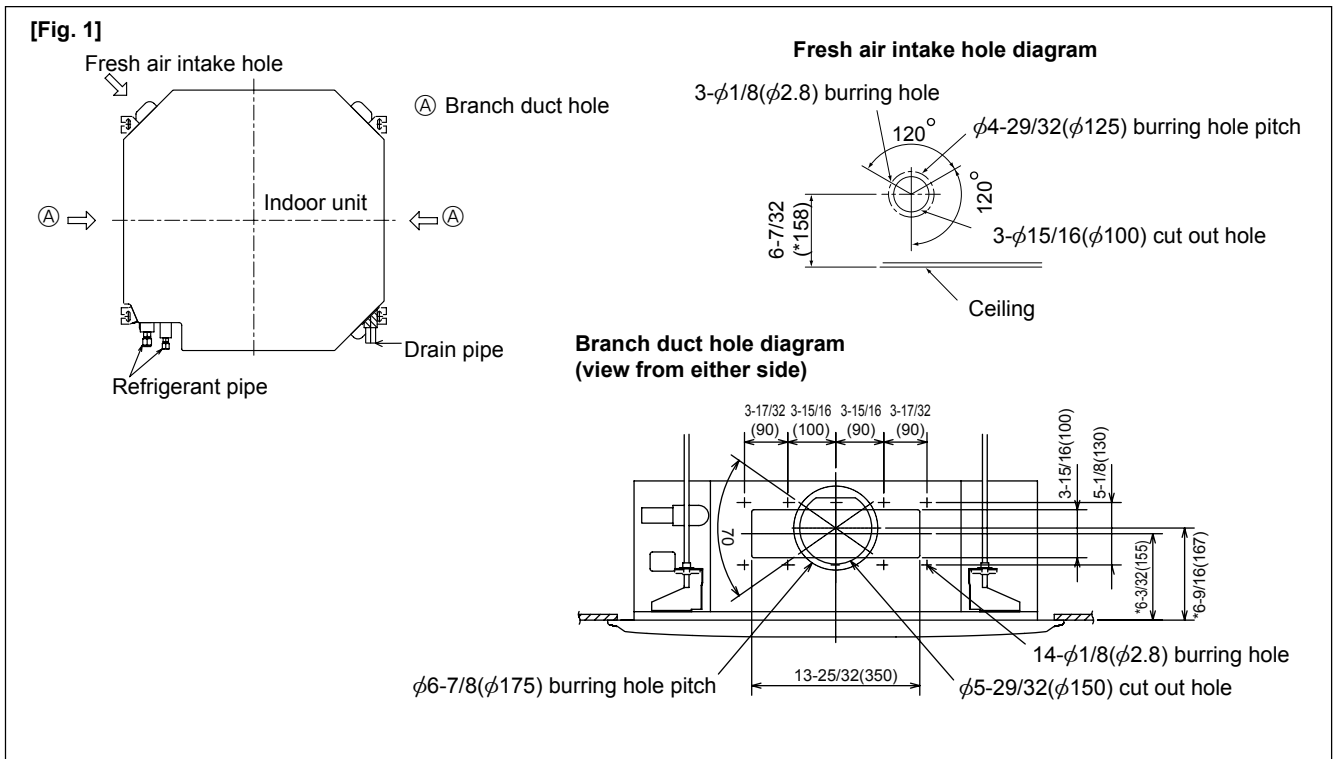
Note:

The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 5-5/16 to the dimensions marked on the figure.
 When installing the branch ducts, be sure to insulate adequately.

Otherwise condensation and dripping may occur.

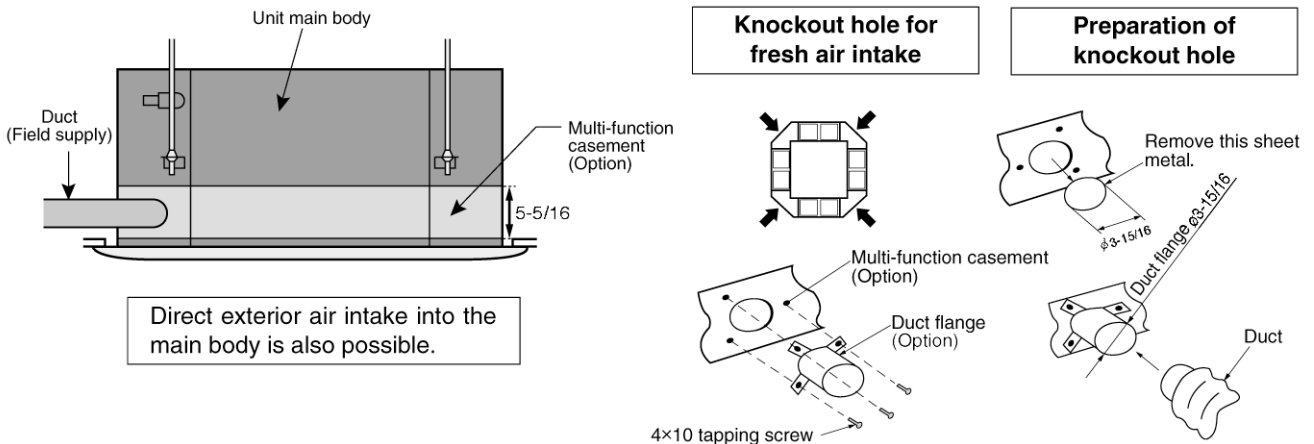
Unit : inch(mm)



2. Fresh air intake (Installation at site)

By mounting the optional multi-function casement to the indoor unit main body, and mounting the duct flange (option) onto it further, fresh exterior air intake can be accomplished.

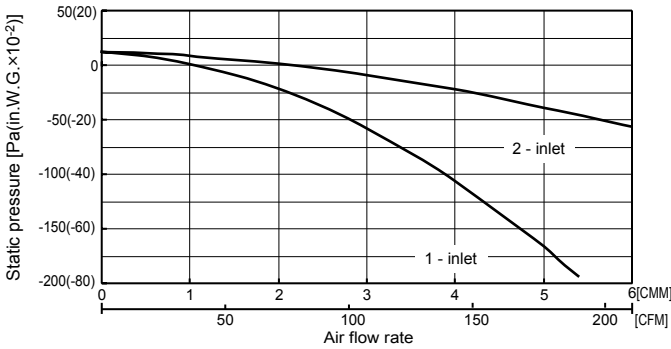
(The mounting of the multi-function casement increases the height of the ceiling plenum by 5-5/16(135mm).)



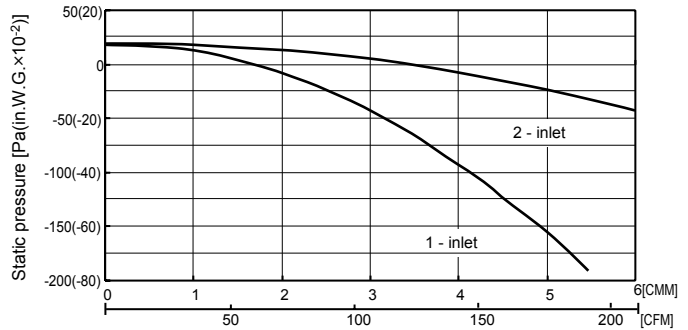
3. Fresh air intake amount & static pressure characteristics

1 PLA-A12 · A18 · A24 · A30BA

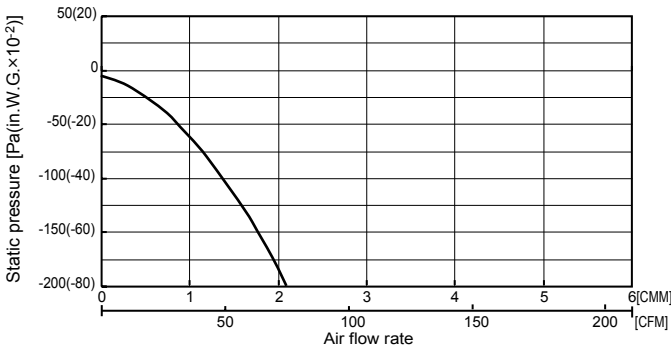
Multifunction casement + High efficiency filter



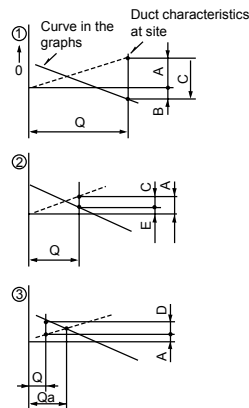
Multifunction casement + Standard filter



Taking air into the unit



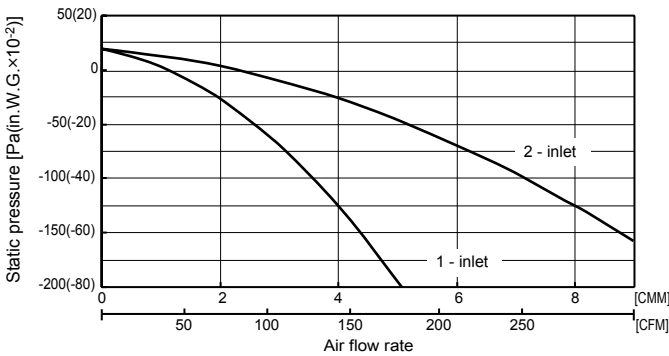
How to read curves



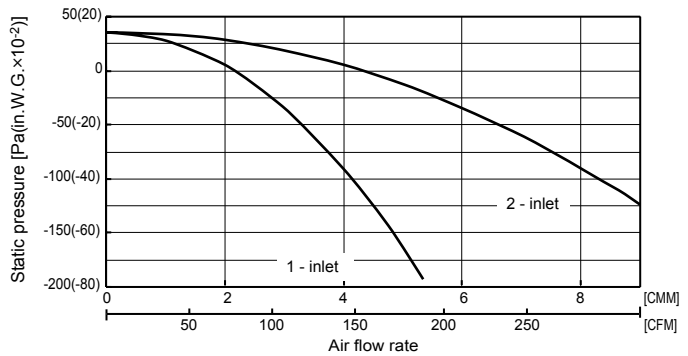
- Q...Designed amount of fresh air intake <CMM(CFM)>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <Pa(in.W.G. $\times 10^{-2}$)>
- B...Forced static pressure at air conditioner inlet with air flow amount Q <Pa(in.W.G. $\times 10^{-2}$)>
- C...Static pressure of booster fan with air flow amount Q <Pa(in.W.G. $\times 10^{-2}$)>
- D...Static pressure loss increase amount of fresh air intake dust system for air flow amount Q <Pa(in.W.G. $\times 10^{-2}$)>
- E...Static pressure of indoor unit with air flow amount Q <Pa(in.W.G. $\times 10^{-2}$)>
- Qa...Estimated amount of fresh air intake without D <CMM(CFM)>

2 PLA-A36 · A42BA

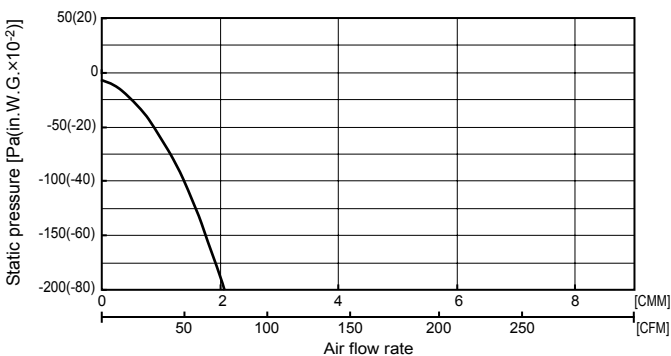
Multifunction casement + Standard filter



Multifunction casement + High efficiency filter



Taking air into the unit

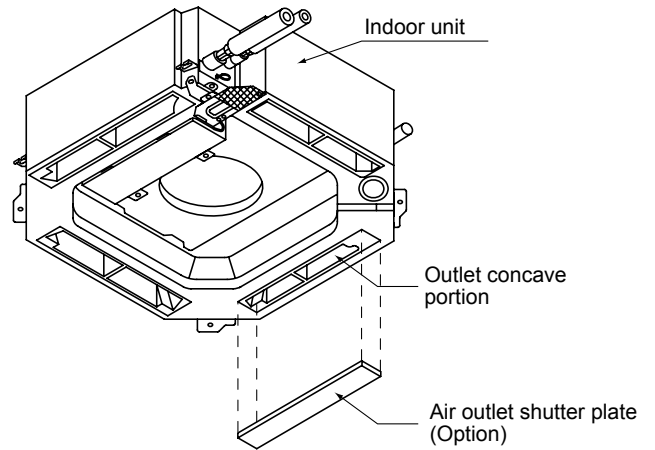
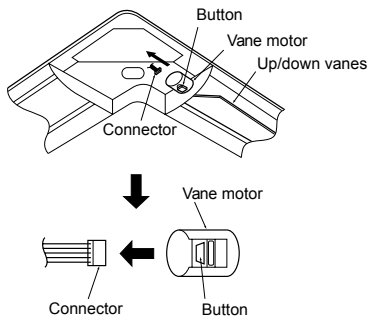


4. Change of outlet numbers

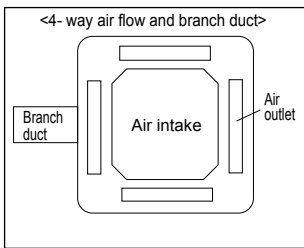
The optional air outlet is necessary.

To change the air outlet number to 3-, or 2-way outlet, the outlet number should be closed with the operational air outlet shutter.

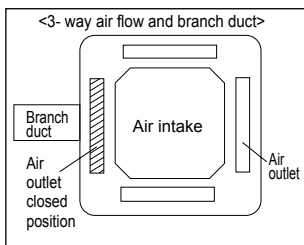
When the air outlets are closed, close the vane by removing the vane connector.



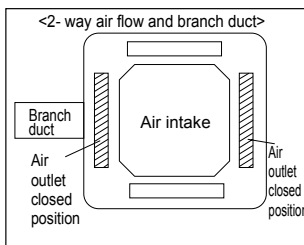
5. Branch duct and change of outlet numbers



※ Branch duct should be connected to one of the branch duct holes on the main unit.



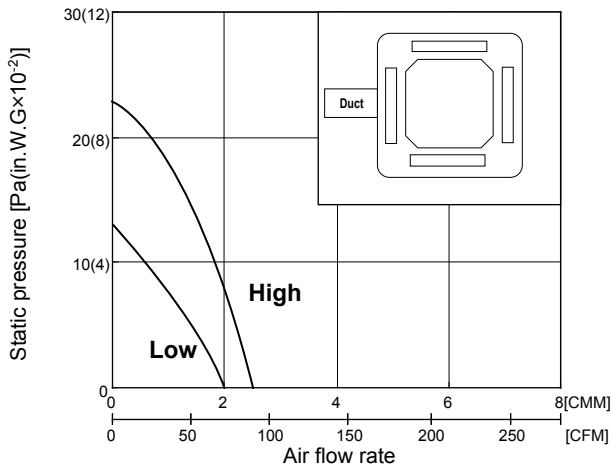
※ Close the outlet on the side of branch duct and air flows in 3 directions.



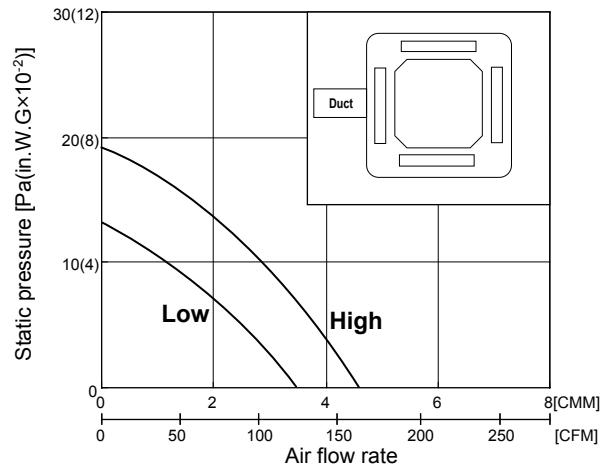
※ The outlet on the side of branch duct and one of the other outlets are closed. Air flows in 2 directions.

PLA-A30BA

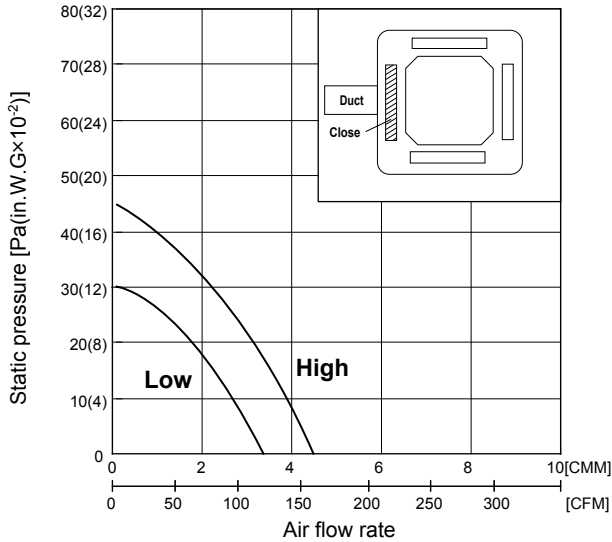
● 4-way air flow (horizontal vane) Round duct



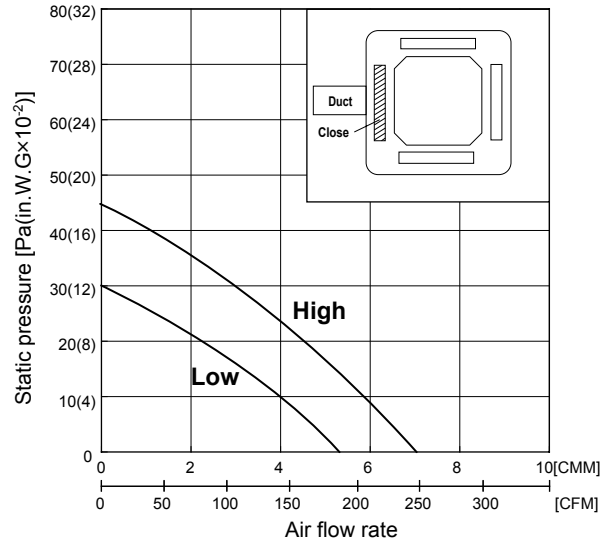
● 4-way air flow (horizontal vane) Rectangular duct



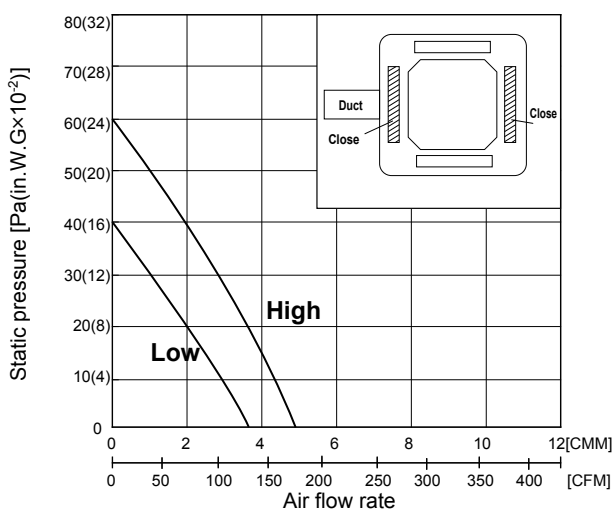
● 3-way air flow (horizontal vane) Round duct



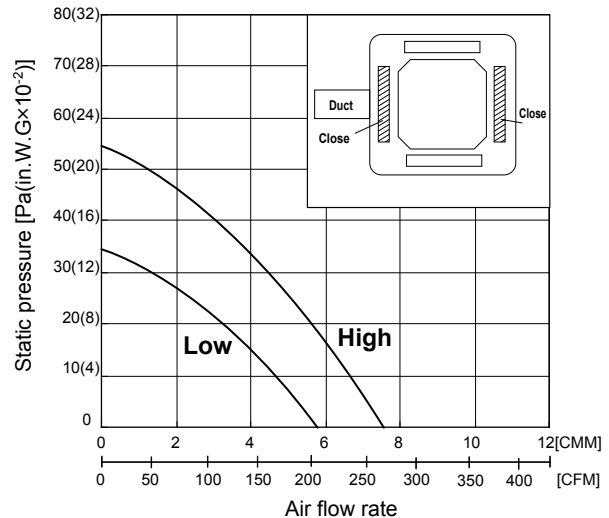
● 3-way air flow (horizontal vane) Rectangular duct



● 2-way air flow (horizontal vane) Round duct

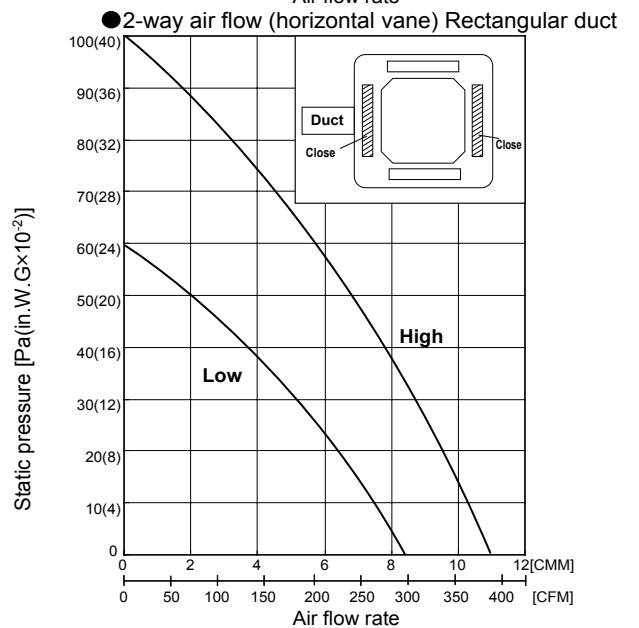
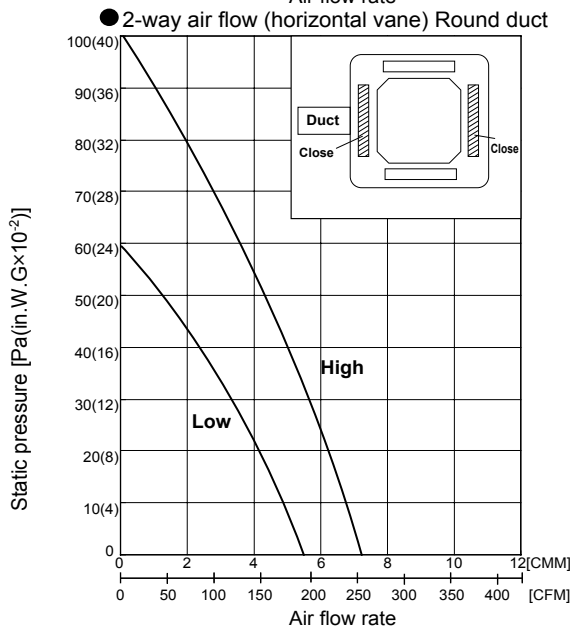
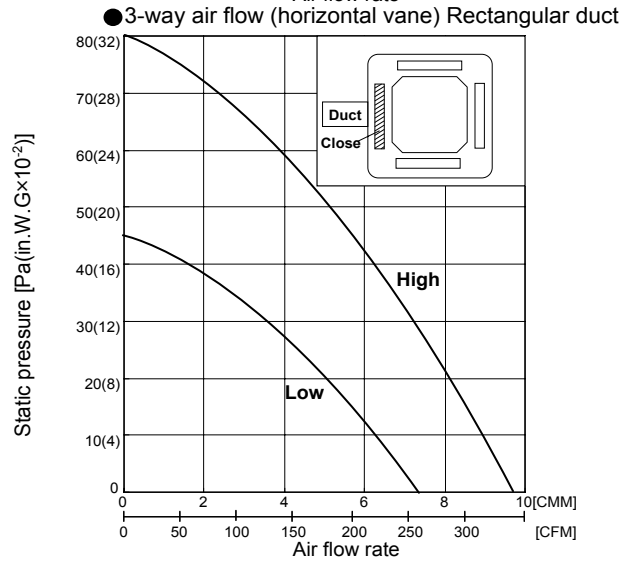
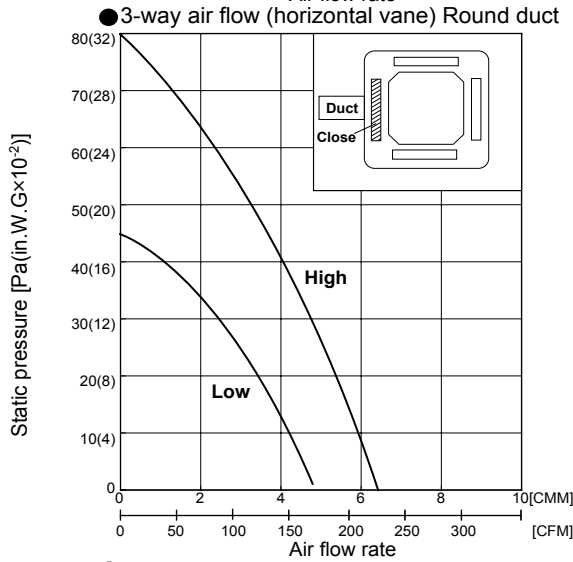
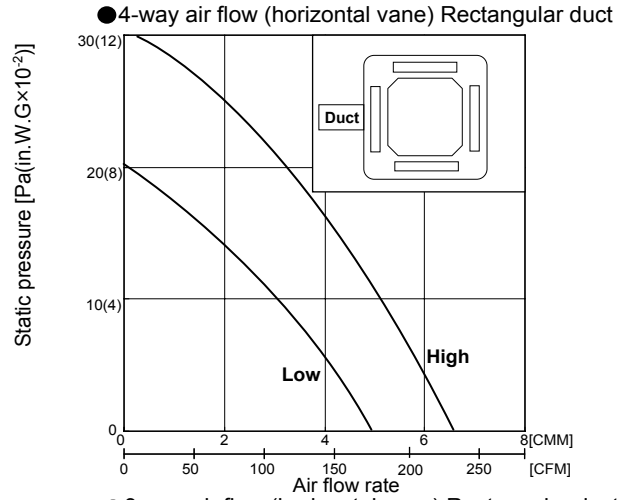
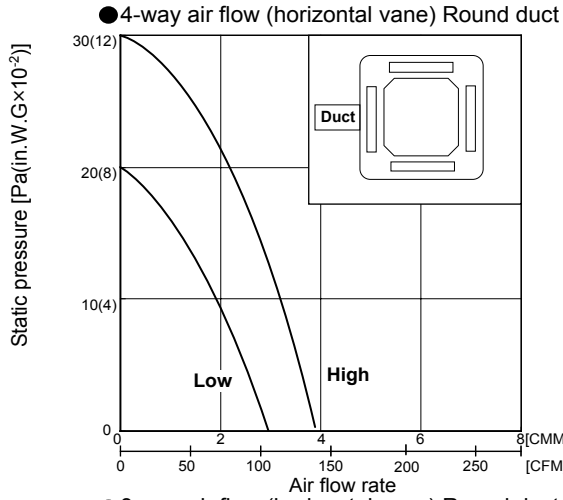


● 2-way air flow (horizontal vane) Rectangular duct



- Use 1 of the 2 duct holes on the indoor unit.
- Air flow rate of PLA-A12~24BA can be calculated from the air flow rate based on the characteristic of the duct for PLA-A30BA.
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way air flow.

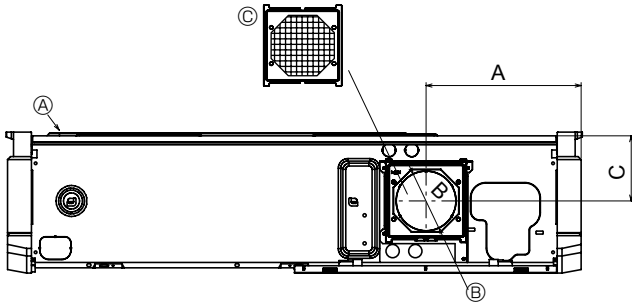
PLA-A42BA



- Use 1 of the 2 duct holes on the indoor unit.
- Air flow rate of PLA-A36BA can be calculated from the air flow rate based on the characteristic of the duct for PLA-A42BA.
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way air flow.

8-3. PCA-A-KA

FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS



Fresh air intake hole

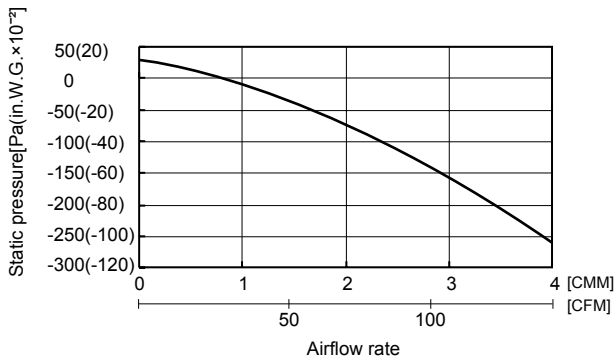
At the time of installation, use the duct holes (knock out) located at the positions shown in the left diagram, as and when required.

- Ⓐ Indoor unit
- Ⓑ Fresh air intake hole (knock out hole)
- Ⓒ Filter

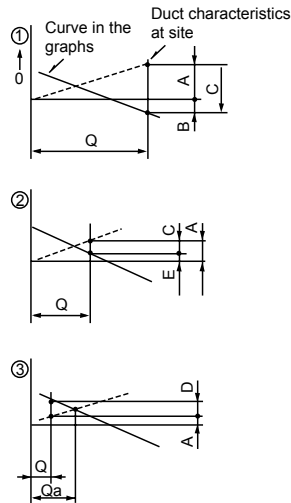
in. (mm)

A	B	C
10-3/16 (259.5)	∅ 3-15/16 (∅ 100)	4-5/16 (109)

■ PCA-A24, 30KA

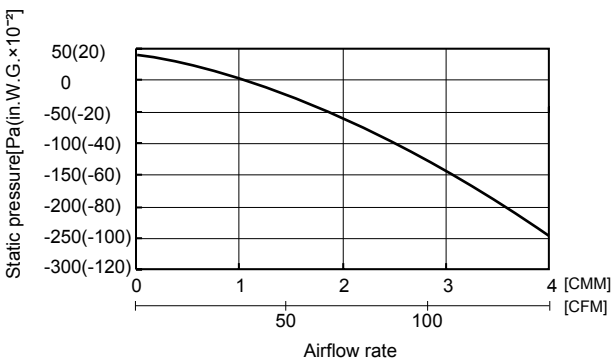


How to read curves



- Q...Designed amount of fresh air intake <CMM(CFM)>
- A...Static pressure loss of fresh air intake duct system with airflow amount Q <Pa(in.W.G.x10⁻²)>
- B...Forced static pressure at air conditioner inlet with airflow amount Q <Pa(in.W.G.x10⁻²)>
- C...Static pressure of booster fan with airflow amount Q <Pa(in.W.G.x10⁻²)>
- D...Static pressure loss increase amount of fresh air intake duct system for airflow amount Q <Pa(in.W.G.x10⁻²)>
- E...Static pressure of indoor unit with airflow amount Q <Pa(in.W.G.x10⁻²)>
- Qa...Estimated amount of fresh air intake without D <CMM(CFM)>

■ PCA-A36, 42KA

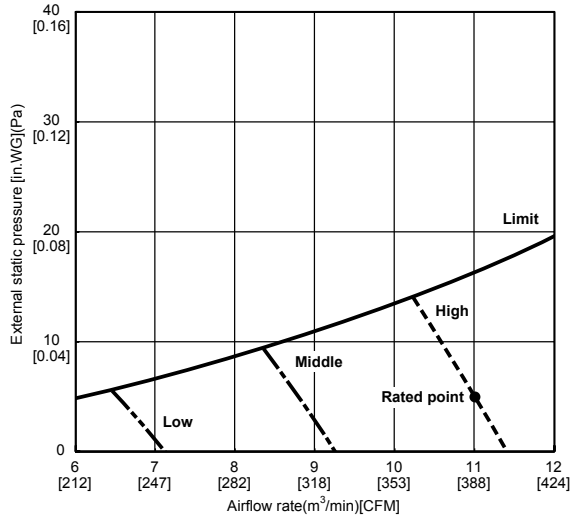


8-4. PEA-A-AA

INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

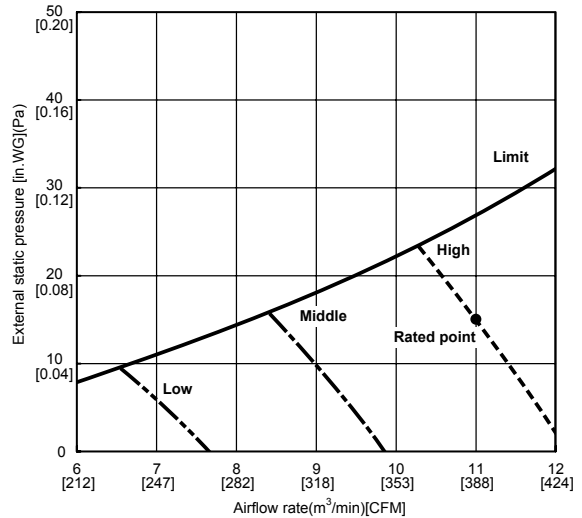
PEA-A12AA

(External static pressure 0.020[in.WG](5Pa) 208/230V 60Hz)



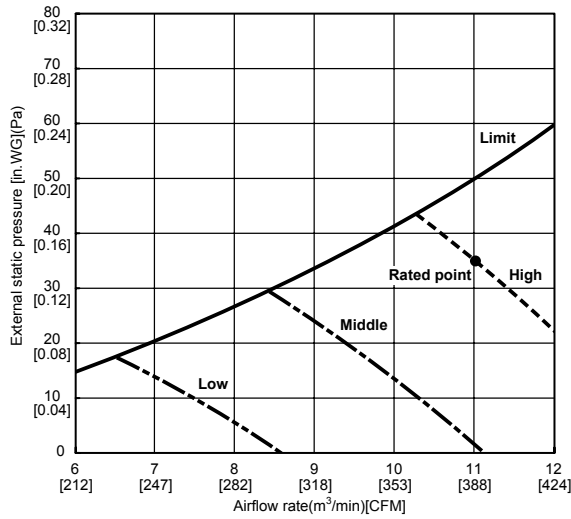
PEA-A12AA

(External static pressure 0.060[in.WG](15Pa) 208/230V 60Hz)



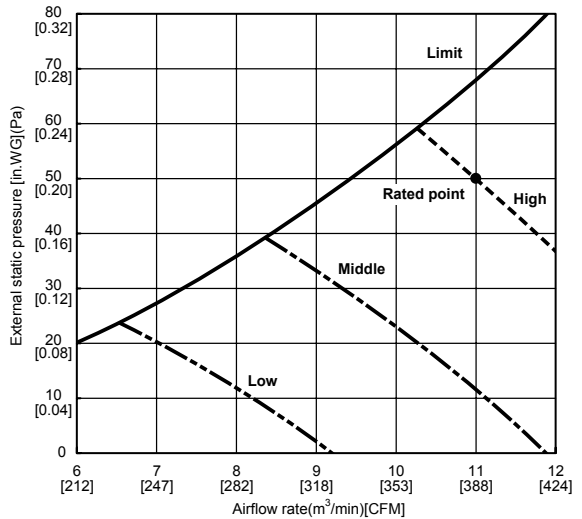
PEA-A12AA

(External static pressure 0.140[in.WG](35Pa) 208/230V 60Hz)



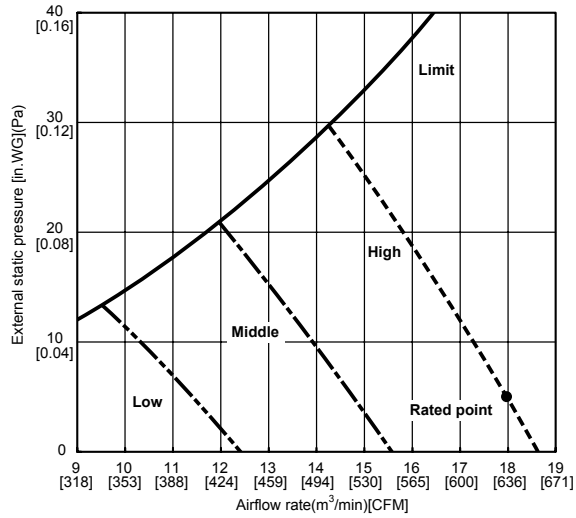
PEA-A12AA

(External static pressure 0.200[in.WG](50Pa) 208/230V 60Hz)



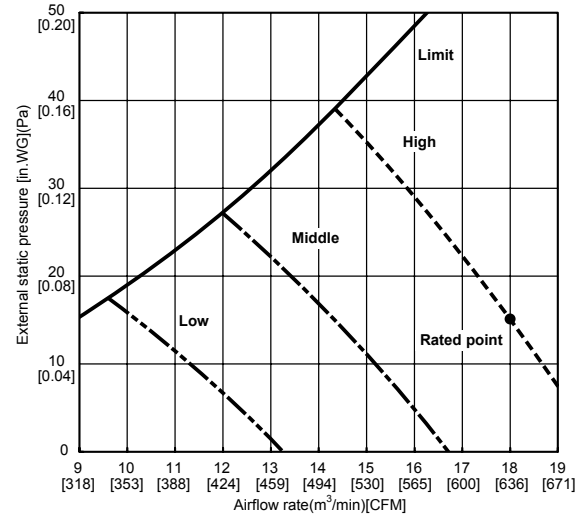
PEA-A18AA

(External static pressure 0.020[in.WG](5Pa) 208/230V 60Hz)



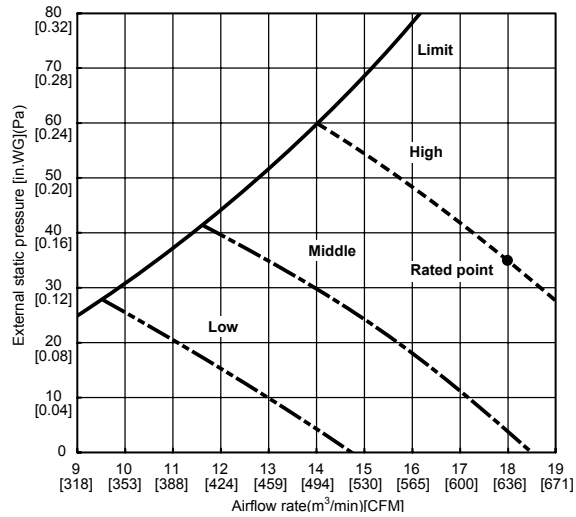
PEA-A18AA

(External static pressure 0.060[in.WG](15Pa) 208/230V 60Hz)



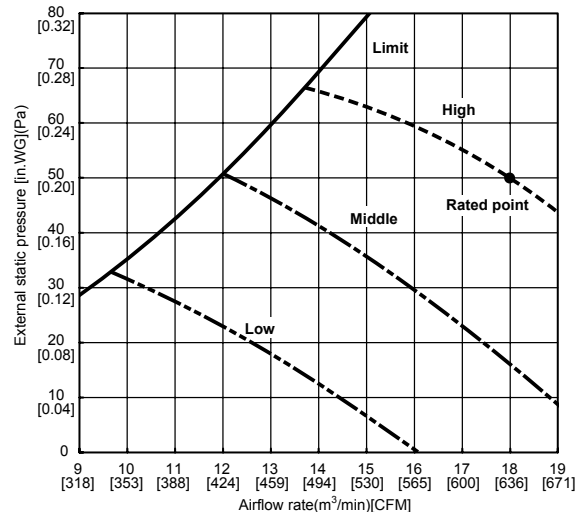
PEA-A18AA

(External static pressure 0.140[in.WG](35Pa) 208/230V 60Hz)



PEA-A18AA

(External static pressure 0.200[in.WG](50Pa) 208/230V 60Hz)

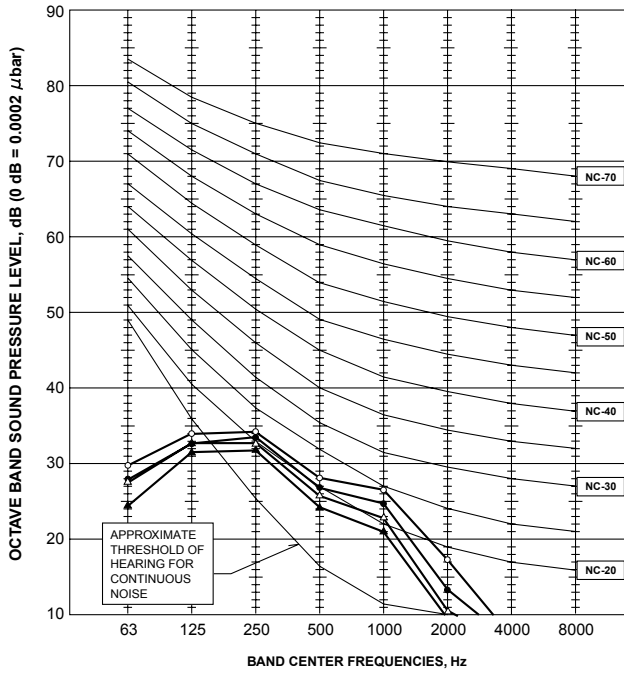


9

NOISE CRITERION CURVES

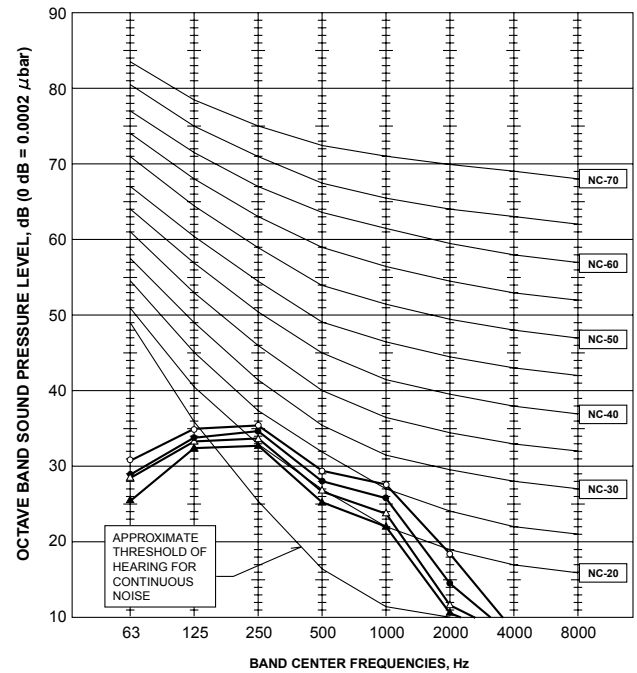
PLA-A12BA

NOTCH	SPL(dB)	LINE
High	31	○—○
Medium1	29	●—●
Medium2	28	△—△
Low	27	▲—▲



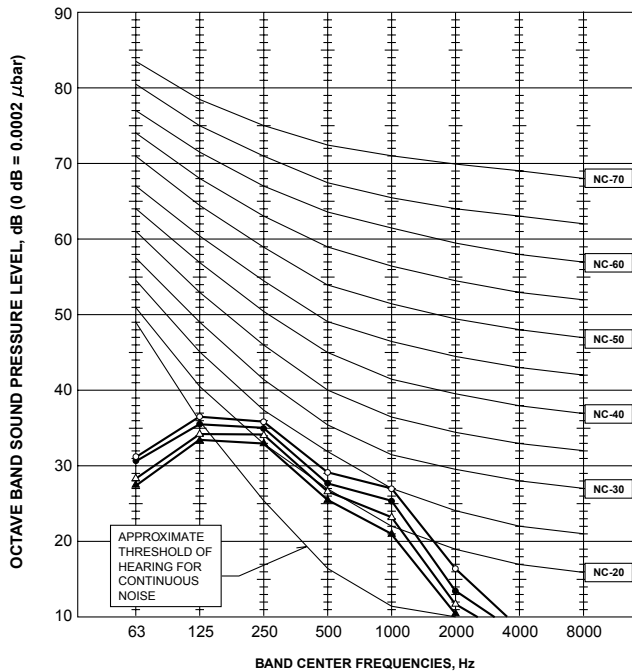
PLA-A18BA

NOTCH	SPL(dB)	LINE
High	32	○—○
Medium1	31	●—●
Medium2	29	△—△
Low	28	▲—▲



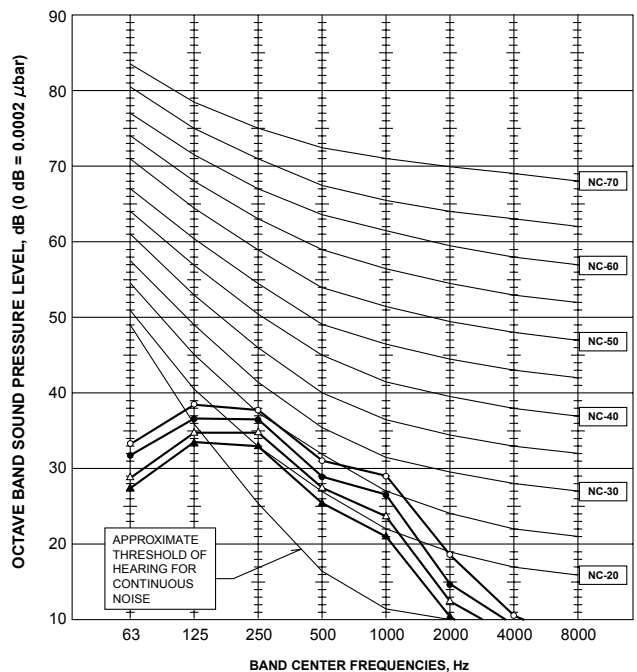
PLA-A24BA

NOTCH	SPL(dB)	LINE
High	32	○—○
Medium1	31	●—●
Medium2	29	△—△
Low	28	▲—▲



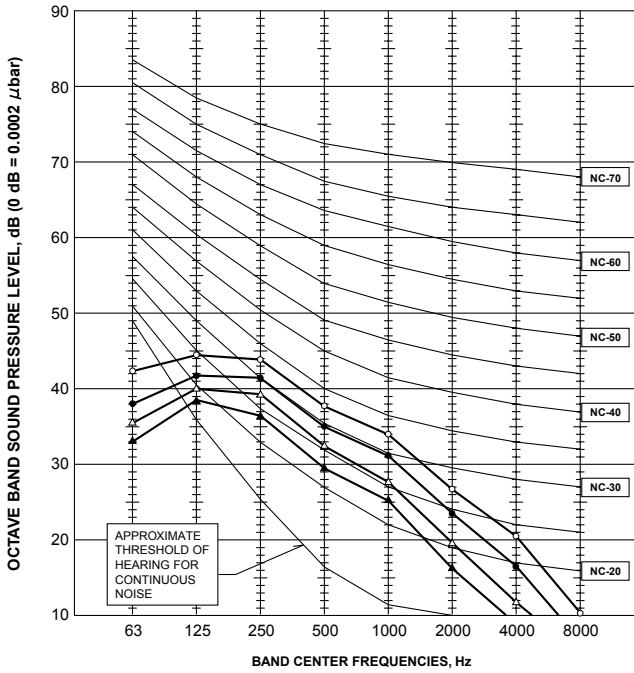
PLA-A30BA

NOTCH	SPL(dB)	LINE
High	34	○—○
Medium1	32	●—●
Medium2	30	△—△
Low	28	▲—▲



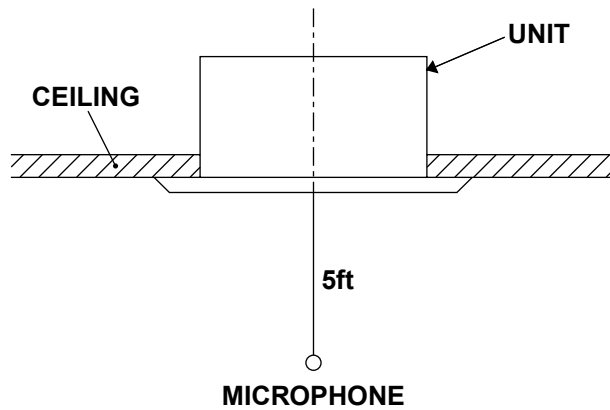
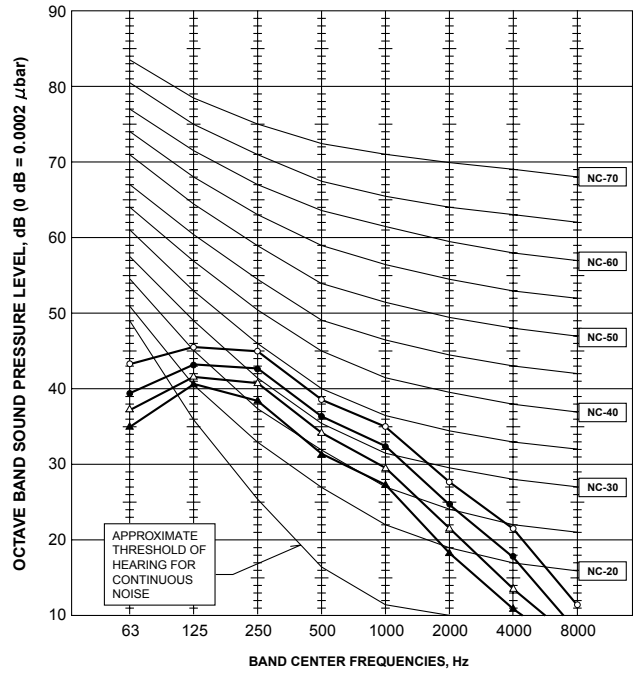
PLA-A36BA

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	●—●
Medium2	34	△—△
Low	32	▲—▲



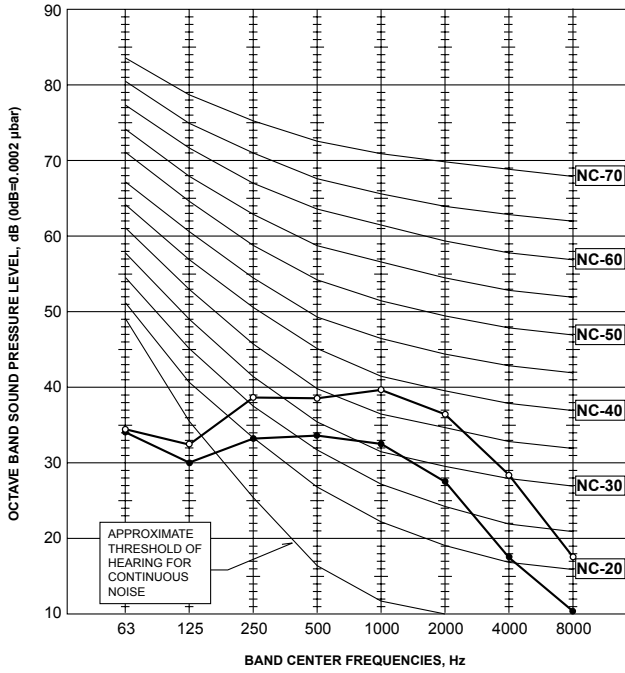
PLA-A42BA

NOTCH	SPL(dB)	LINE
High	41	○—○
Medium1	39	●—●
Medium2	36	△—△
Low	34	▲—▲



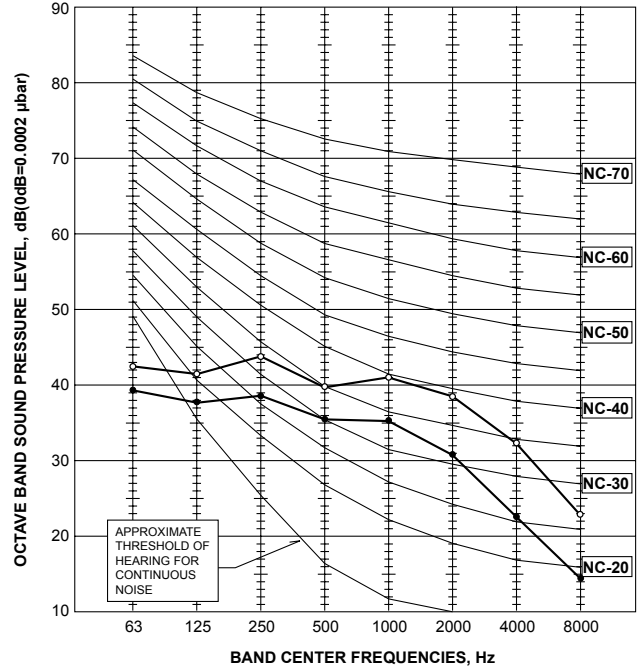
**PKA-A12HA
PKA-A18HA
PKA-A12HAL
PKA-A18HAL**

NOTCH	SPL(dB)	LINE
High	43	○—○
Low	36	●—●



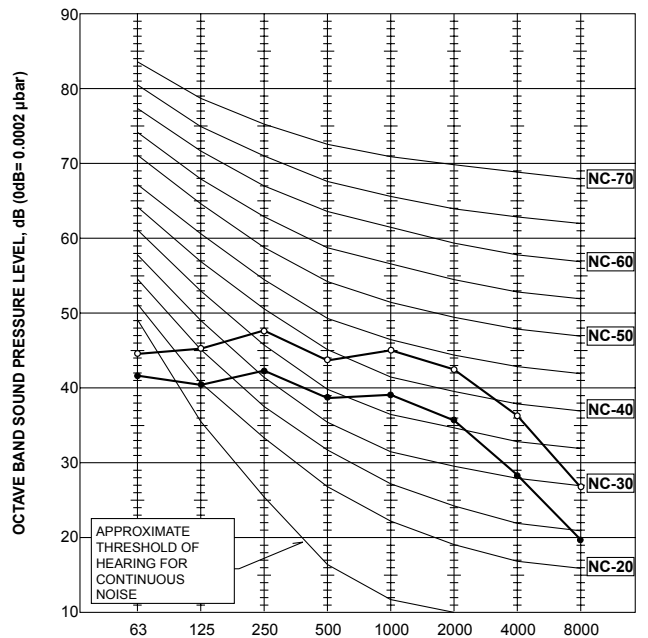
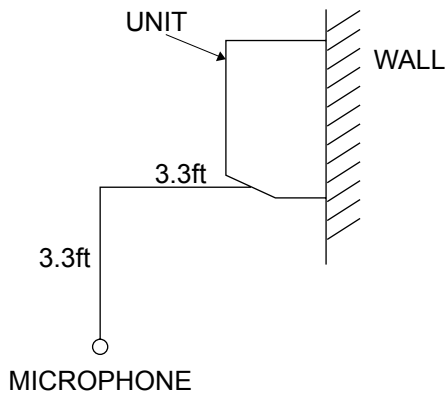
**PKA-A24KA
PKA-A30KA
PKA-A24KAL
PKA-A30KAL**

NOTCH	SPL(dB)	LINE
High	45	○—○
Low	39	●—●



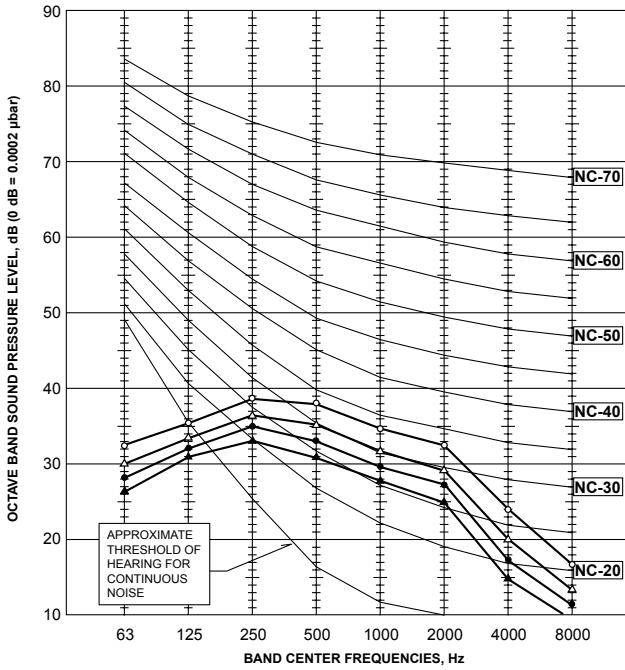
**PKA-A36KA
PKA-A36KAL**

NOTCH	SPL(dB)	LINE
High	49	○—○
Low	43	●—●



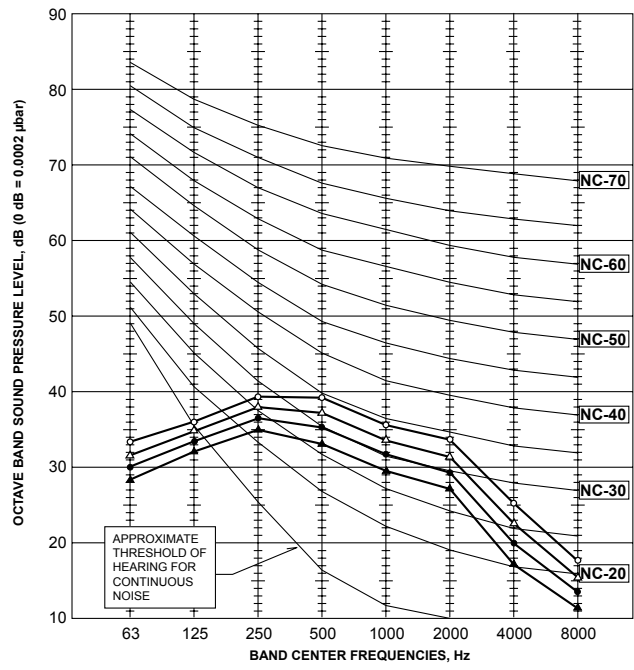
PCA-A24KA

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	△—△
Medium2	35	●—●
Low	33	▲—▲



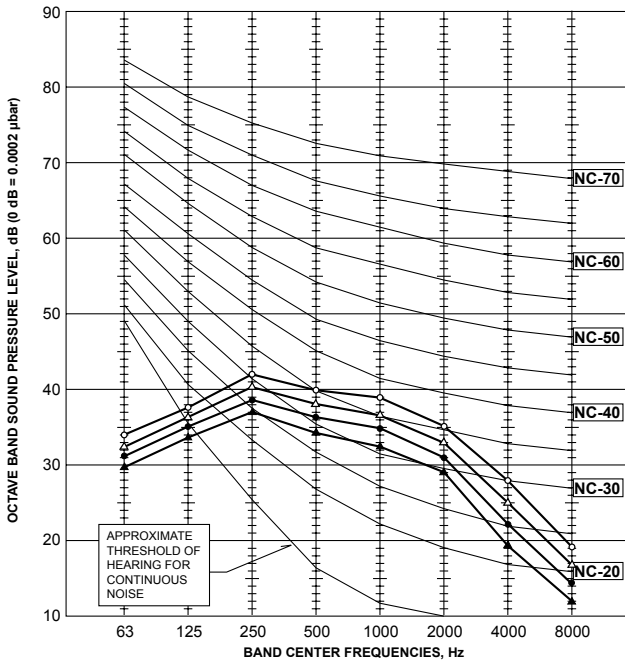
PCA-A30KA

NOTCH	SPL(dB)	LINE
High	41	○—○
Medium1	39	△—△
Medium2	37	●—●
Low	35	▲—▲



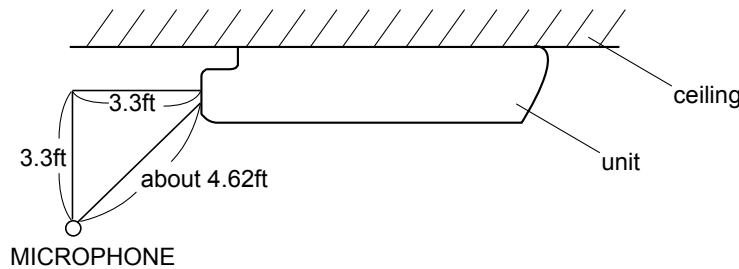
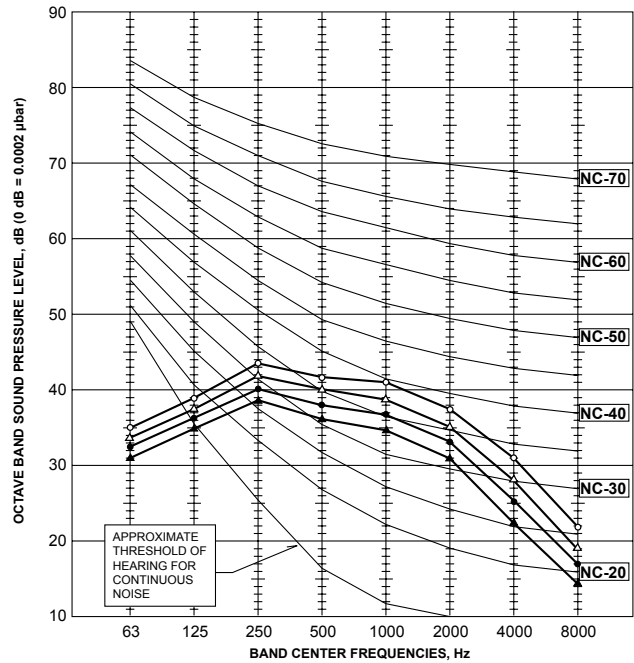
PCA-A36KA

NOTCH	SPL(dB)	LINE
High	43	○—○
Medium1	41	△—△
Medium2	39	●—●
Low	37	▲—▲



PCA-A42KA

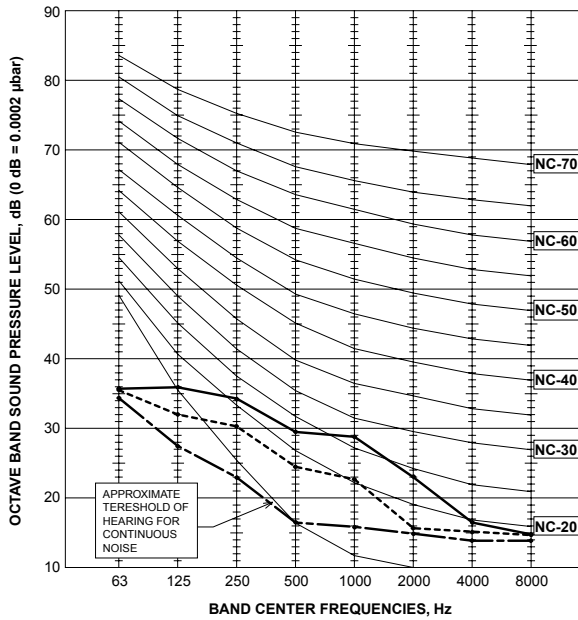
NOTCH	SPL(dB)	LINE
High	45	○—○
Medium1	43	△—△
Medium2	41	●—●
Low	39	▲—▲



PEA-A12AA

External static pressure :
0.020[in.WG](5Pa)

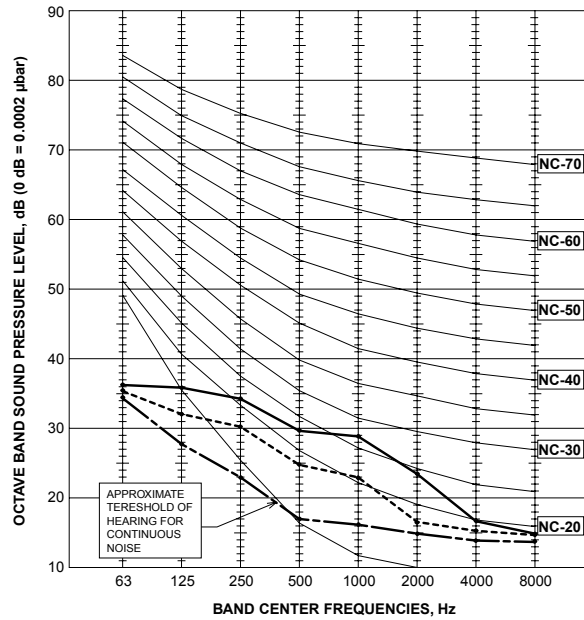
<60Hz>		
NOTCH	SPL(dB)	LINE
High	33	—●—
Middle	28	- - - - -
Low	23	- - - - -



PEA-A12AA

External static pressure :
0.060[in.WG](15Pa)

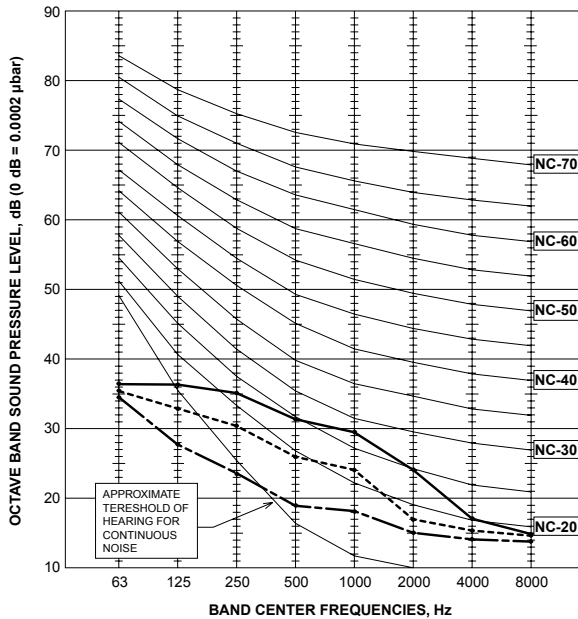
<60Hz>		
NOTCH	SPL(dB)	LINE
High	33	—●—
Middle	28	- - - - -
Low	23	- - - - -



PEA-A12AA

External static pressure :
0.140[in.WG](35Pa)

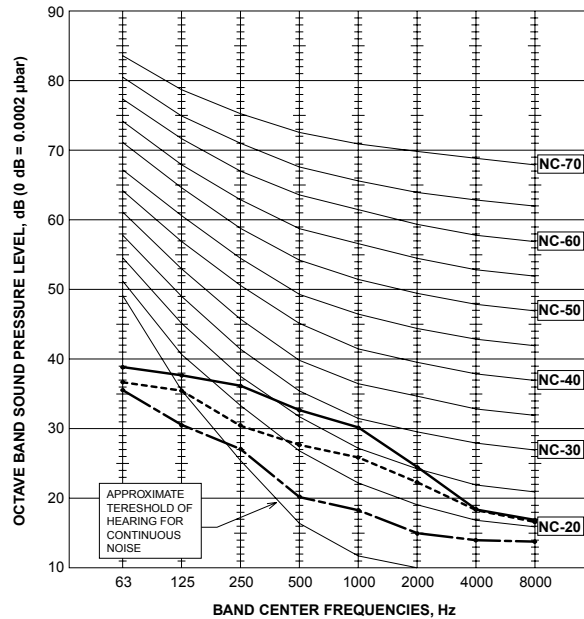
<60Hz>		
NOTCH	SPL(dB)	LINE
High	34	—●—
Middle	29	- - - - -
Low	24	- - - - -



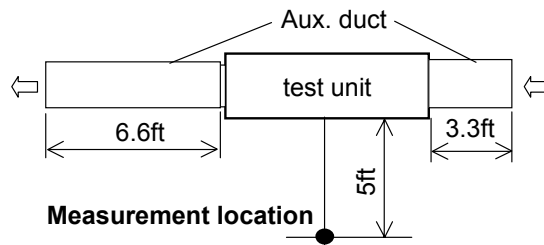
PEA-A12AA

External static pressure :
0.200[in.WG](50Pa)

<60Hz>		
NOTCH	SPL(dB)	LINE
High	35	—●—
Middle	31	- - - - -
Low	25	- - - - -



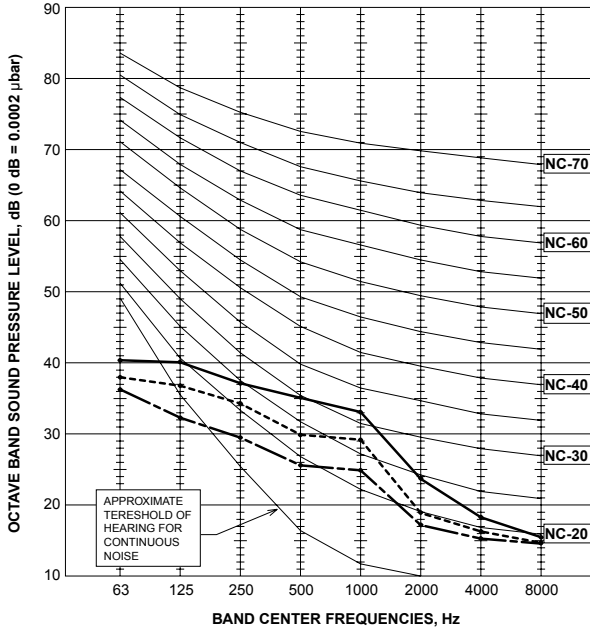
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.



PEA-A18AA

External static pressure :
0.020[in.WG](5Pa)

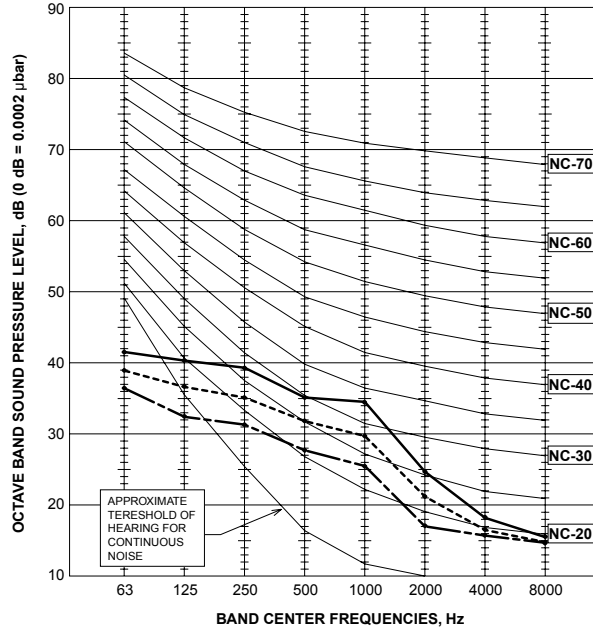
<60Hz>		
NOTCH	SPL(dB)	LINE
High	37	—————
Middle	33	- - - - -
Low	29	—————



PEA-A18AA

External static pressure :
0.060[in.WG](15Pa)

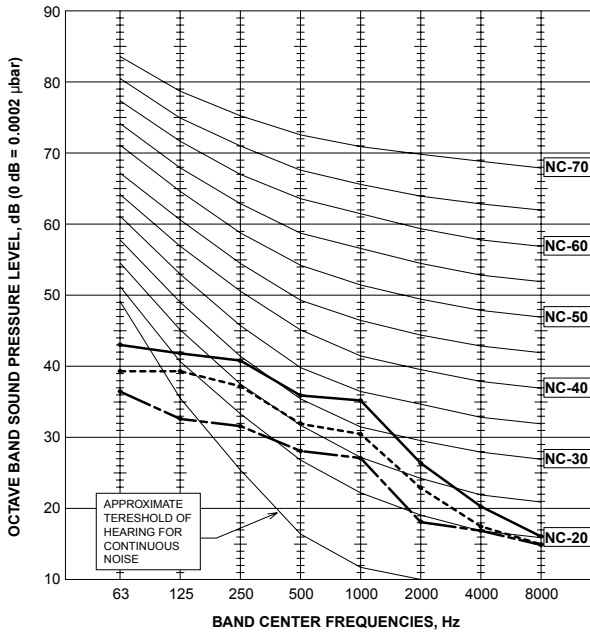
<60Hz>		
NOTCH	SPL(dB)	LINE
High	38	—————
Middle	34	- - - - -
Low	30	—————



PEA-A18AA

External static pressure :
0.140[in.WG](35Pa)

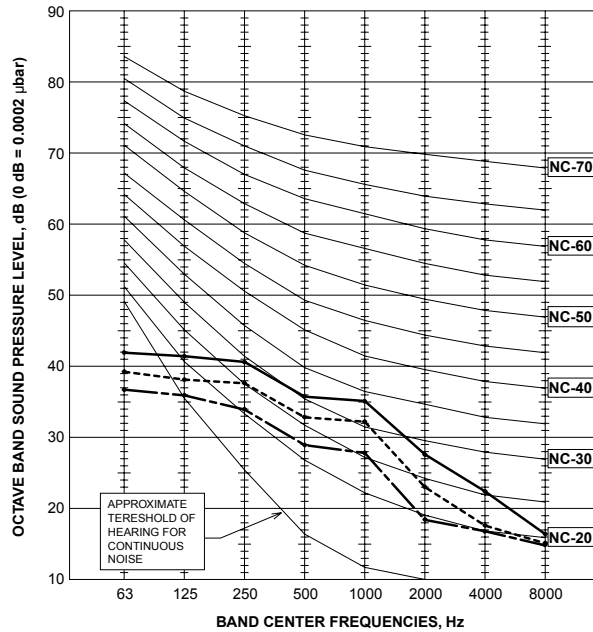
<60Hz>		
NOTCH	SPL(dB)	LINE
High	39	—————
Middle	35	- - - - -
Low	31	—————



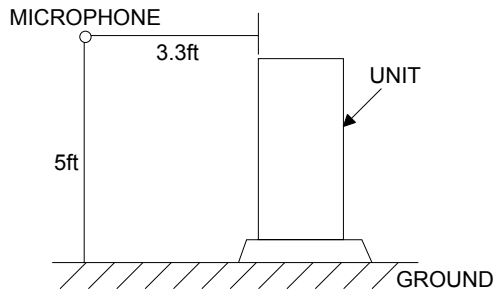
PEA-A18AA

External static pressure :
0.200[in.WG](50Pa)

<60Hz>		
NOTCH	SPL(dB)	LINE
High	39	—————
Middle	36	- - - - -
Low	32	—————

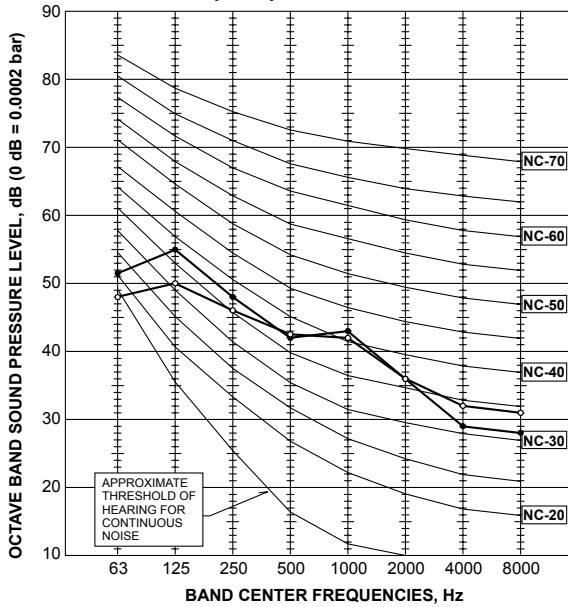


NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.



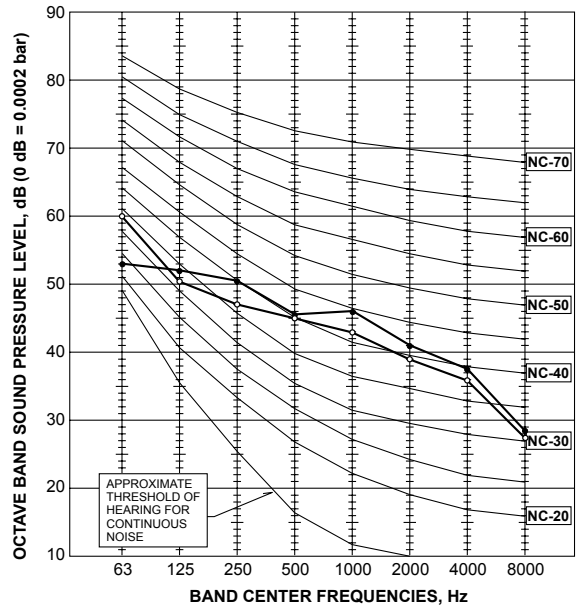
PUY-A12NHA3 (-BS)
PUY-A18NHA3 (-BS)
PUZ-A18NHA3 (-BS)

MODE	SPL(dB)	LINE
COOLING	46	○—○
HEATING	47	●—●



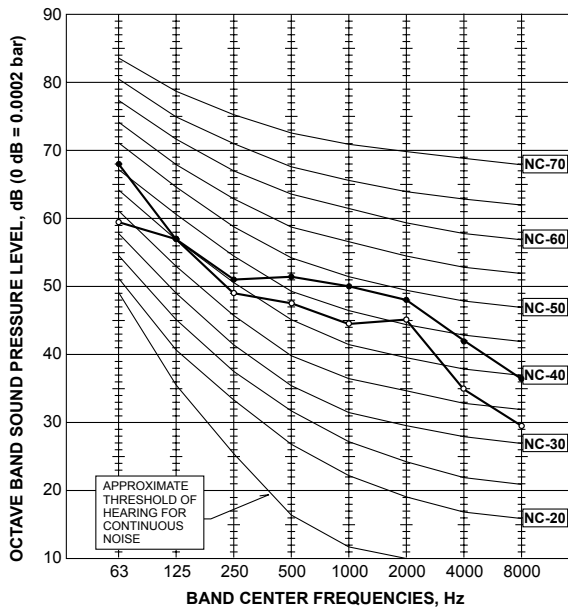
PUY-A24/30/36NHA3(-BS)
PUZ-A24/30/36NHA3(-BS)

MODE	SPL(dB)	LINE
COOLING	48	○—○
HEATING	50	●—●



PUY-A42NHA3(-BS)
PUZ-A42NHA3(-BS)

MODE	SPL(dB)	LINE
COOLING	51	○—○
HEATING	55	●—●



10-1. INDOOR UNIT

Part Name	Model Name	Applicable model
Remote sensor (extensible)	PAC-SE41TS-E	All models
Connector for CN51 (output for remote display + pulse12V input)	PAC-88HA-E (1pc.) PAC-725AD (10pcs.)	
Connector for CN32 (remote ON/OFF)	PAC-SE55RA-E	
Connector for CN30 (LLC)	PAC-SE57RA-E	
Connector for CN24 (Back up heating)	PAC-SE56RA-E	PLA-A·BA, PCA-A·KA, PEA-A·AA
Connector for CN152 (Back up heating)	PAC-SE59RA-E	PKA-A·HA(L)/KA(L)
Power supply terminal kit	PAC-SH55HR-E	PLA-A·BA
	PAC-SG95HR-E	PKA-A·HA(L)/KA(L)
	PAC-SH98HR-E	PCA-A·KA
Decoration panel with wired remote controller	PLP-42BAMD	PLA-A·BA
Decoration panel	PLP-40BAU	
Multi-function casement	PAC-SH53TM-E	
Flange for fresh air intake	PAC-SH65OF-E	
High-efficiency filter element (PAC-SH53TM-E is needed.)	PAC-SH59KF-E	
i-see sensor corner panel	PAC-SA1ME-E	
Wireless signal receiver	PAR-SA9FA-E	
Wireless remote controller kit	PAR-SW96U-E	
Space panel	PAC-SH48AS-E	
Air outlet shutter plate	PAC-SH51SP-E	
High efficiency filter	PAC-SH89KF-E	
	PAC-SH90KF-E	PCA-A36/42KA
Drain lift up mechanism	PAC-SH84DM-E	PCA-A·KA
i-see Sensor	PAC-SH91MK-E	
Wireless remote controller kit with i-see Sensor	PAR-SA92MW-E	
Wireless remote controller kit	PAR-SL93B-E	
Wireless remote controller	PAR-FL32MA-E	PEA-A·AA

10-2. OUTDOOR UNIT

Part Name	Model Name	Applicable model
M-NET adapter	PAC-SF80MA-E	All models
A-control service tool	PAC-SK52ST	
Drain socket	PAC-SG61DS-E	
Air outlet guide (A42 needs 2 pieces.)	PAC-SG58SG-E	A12,18
	PAC-SG59SG-E	A24-42
Air protect guide (A42 needs 2 pieces.)	PAC-SG56AG-E	A12,18
	PAC-SH63AG-E	A24-42
Drain pan	PAC-SG63DP-E	A12,18
	PAC-SG64DP-E	A24-42
Distribution pipe for twin use	MSDD-50SR-E	A24,36



HEAD OFFICE : TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN